

Results of the Meteorological Observations taken at the Alipore Observatory from
30th November to 6th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.			HYGROMETRY.			WIND.			Miles recorded.	Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.			
Nov.	30th	131.5	9.5	29.998	67.0	77.3	19.7	57.6	62.5	0.507	59.3	78	NNE and calm ..	23	Nil	Clear, D, \equiv .
Dec.	1st	131.3	9.2	29.935	66.2	77.4	21.1	56.3	61.9	0.501	59.0	75	N by E and calm ..	21	„	Chiefly clear, D, \equiv .
„	2nd	128.5	7.9	29.965	66.5	77.5	21.7	55.8	62.1	0.502	59.1	79	N by E and calm ..	*12	„	Chiefly clear, D, \equiv .
„	3rd	131.5	9.2	30.014	66.6	77.3	20.8	56.5	62.3	0.509	59.4	79	WNW and calm ..	12	„	Clear, D, \equiv .
„	4th	129.5	6.3	29.921	66.3	76.5	20.5	56.0	61.9	0.499	58.9	79	NW and calm ..	11	„	Partially cloudy, D, \equiv .
„	5th	131.8	6.8	29.973	67.2	78.5	20.9	57.6	62.6	0.511	59.6	78	WNW, calm and variable.	22	„	Partially cloudy, D, \equiv .
„	6th	132.5	8.7	29.939	67.3	79.2	22.2	57.0	61.8	0.481	57.8	75	W and calm ..	25	„	Chiefly clear, D, \equiv .

	Inches.
The mean pressure of the seven days ...	29.978
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30.014

	Hours.
The total number of hours of bright sunshine ...	57.6
The maximum possible number of hours of sunshine ...	75.6

	Miles.
The mean temperature of the seven days ...	66.7
The average temperature of the corresponding period for 24 years, S.-G.'s Office	70.3
The extreme variation of temperature ...	23.4
The maximum temperature ...	79.2

	Lbs.
The highest velocity of the wind in one hour ...	6

	%
The highest pressure of wind on one square foot ...	?

	Inches.
The mean relative humidity ...	78
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ...	71

	Nil
The total fall of rain from 30th November to 6th December 1890	Nil

	0.04
The average fall of the corresponding period for 24 years, S.-G.'s Office	0.04

	61.25
The total fall from 1st January to 6th December 1890	61.25

	65.19
The average fall of the corresponding period for 24 years, S.-G.'s Office	65.19

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

D , dew; \equiv , fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 8th December 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of November 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	... 30.065	
The mean temperature at 10 A.M. during the month	... 76.6	
The highest temperature during the month	... 84.9	4th.
The lowest temperature during the month	... 57.9	28th, 29th, & 30th.
The absolute range of temperature during the month	... 27.0	
The mean daily range of temperature during the month	... 17.8	
The greatest range of temperature in one day during the month	... 22.0	16th.
The mean 10 A.M. humidity during the month	... 63	
The mean 10 A.M. vapour pressure during the month	... .581	Inches.
The total rainfall of the month	... Nil	
The greatest fall in 24 hours	... Nil	Days.
The number of rainy days in the month	... Nil	

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 8th December 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th November to 6th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	
November...	30th	... 30.113	68.4	78.9	21.0	57.9	72.6	64.6	.504	59.2	63
December ..	1st	... .019	67.8	78.1	20.7	57.4	72.6	65.4	.531	60.6	66
" ..	2nd	... .048	67.9	78.7	21.6	57.1	72.1	63.6	.476	57.6	60
" ..	3rd	... .085	68.4	78.9	21.0	57.9	71.8	64.6	.516	59.8	66
" ..	4th	... .116	67.9	78.1	20.4	57.7	70.6	65.6	.565	62.4	76
" ..	5th	... .050	69.4	79.8	20.9	58.9	73.1	67.1	.585	63.4	72
" ..	6th	... .017	69.7	80.9	22.5	58.4	72.6	64.6	.504	59.2	63

The mean 10 A.M. pressure of the seven days 30.064 Inches.

The mean temperature of the seven days 68.5 °

The extreme variation of temperature 23.8

The maximum temperature 80.9 °

The mean 10 A.M. relative humidity of the seven days 67 %

The total fall of rain from 30th November to 6th December 1890 Nil Inches.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 8th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 22nd November 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 22nd November 1890, in twenty-seven principal towns of Bengal, excluding one (Gya) from which no return has yet been received, correspond to an annual rate of 27.1 per 1,000 of the aggregate population of the twenty-six towns, which is 985,453. This rate is equal to the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1886 and 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28.2	23.4	25.1	29.0	29.9	27.1	27.1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.		1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	33.6	32.0	21.4	39.7	Narriganj	66.2	115.9	74.5	37.3
Midnapore	20.1	17.0	15.5	23.7	Chittagong	11.7	14.1	16.4	9.4
Hughli and Chinsurah	42.7	27.9	32.8	44.3	Comilla	19.3	27.0	23.1	27.0
Serampore	53.0	39.3	55.0	43.2	Patna City	11.4	15.3	10.7	13.3
Utterpara	47.2	37.7	37.7	56.6	Gya	10.4	17.8	21.9	Not furnished.
Howrah	31.5	33.8	28.1	36.1	Arrah	21.5	43.1	10.8	33.5
Bali	10.5	21.1	21.1	31.6	Mozafferpore	37.7	32.8	32.8	10.9
Krishnagar	22.7	18.9	13.2	11.4	Durbanga	50.0	31.5	36.2	40.1
Ranaghat	12.0	12.0	24.0	12.0	Chupra	33.2	19.1	14.1	22.1
Santipore	19.3	15.8	19.3	24.5	Bhagalpore	46.2	50.7	37.1	24.4
Jessore	12.2	30.6	6.1	12.2	Monghyr	51.5	44.3	39.7	38.9
Rampore Beaulah	35.8	44.7	44.7	52.5	Purneah	3.4	27.7	6.9	10.4
Darjiling	14.8	44.5	29.6	14.8	Poori	21.0	27.3	14.7	14.7
Dacca	27.9	31.1	24.0	31.1	Total	29.1	28.9	24.2	27.1

It will be seen that last week the highest birth-rate was returned from Utterpara (56.6) and the lowest from Jessore (6.1).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 26.4 per 1,000 of the population. The rate of the week is 6.7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	35.7	43.4	22.8	27.1	36.6	33.1	26.4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.		1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	35.1	25.9	22.9	33.6	Narriganj	45.5	41.4	58.0	58.0
Midnapore	21.7	24.8	29.4	23.4	Chittagong	25.8	21.1	14.1	9.4
Hughli and Chinsurah	37.2	27.0	53.5	37.7	Comilla	11.6	23.1	19.3	23.1
Serampore	82.4	45.1	72.6	86.4	Patna City	12.3	16.2	14.3	14.3
Utterpara	56.6	37.7	66.1	23.3	Gya	27.3	44.4	44.4	Not furnished.
Howrah	18.9	19.5	22.9	26.9	Arrah	10.8	22.7	12.0	13.2
Bali	14.0	24.6	21.1	17.5	Mozafferpore	14.6	20.7	17.0	17.0
Krishnagar	11.4	18.9	5.7	5.7	Durbanga	20.0	14.2	18.9	33.0
Ranaghat	24.0	6.0	12.0	30.0	Chupra	17.1	12.1	8.0	12.1
Santipore	10.5	10.3	7.0	17.5	Bhagalpore	18.1	16.3	17.2	19.0
Jessore	49.0	24.5	48.0	18.4	Monghyr	37.1	40.7	27.1	26.2
Rampore Beaulah	30.4	47.3	13.1	47.3	Purneah	27.7	24.2	13.9	6.9
Darjiling	66.7	23.6	7.4	45.4	Poori	35.7	23.2	65.0	58.7
Dacca	20.8	21.4	15.6	45.4	Total	23.7	23.9	23.4	26.4

It will be seen that last week the highest mortality occurred in the town of Serampore (86·4) and the lowest in Krishnagar (5·7). No deaths were registered during the week in Darjiling town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns :—

	<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
		Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Poori	...	8·4	Serampore	...	51·0	Dacca	...	11·0
Howrah	...	6·3	Rampore Beauleah	...	31·5	Rampore Beauleah	...	10·5
Monghyr	...	5·4	Burdwan	...	27·5	Poori	...	10·5
Patna City	...	2·9	Poori	...	25·1	Hughli and Chin-surah	...	24·8
			Hughli and Chin-surah	...	23·0	Dacca	...	21·6
			Durbhangha	...	21·2	Hughli and Chin-surah	...	20·1
						Poori	...	13·1
						Poori	...	10·5

The total mortality from the several registered death-causes in the twenty-six principal towns amounted to 2·3 from cholera, against 1·6 per 1,000 in the preceding week; 2 from small-pox, against 3; 12·7 from fever, against 9·5; 3·8 from bowel-complaints, against 3·7; 4 from injury, against 3; and 7 from other causes, against 6·3 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

	<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>			
		Ratio per mille.		Ratio per mille.		Ratio per mille.		
Males	...	27·9	Christians	...	37·5	Under 1 year	...	182·9
Females	...	24·7	Hindus	...	26·7	1 and under 5 years	...	30·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 113			Mahomedans	...	25·6	5 "	10 "	14·6
						10 "	15 "	11·0
						15 "	20 "	18·5
						20 "	30 "	15·1
						30 "	40 "	19·8
						40 "	60 "	22·1
						50 "	60 "	24·2
						60 years and upwards	...	78·1

Detailed information regarding the vital statistics of the twenty-six principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 9th December 1890.

Sanitary Commissioner for Bengal.

DISTRICTS.	POPULATION, NAMES OF MUNICIPALI- TIES.	BIRTHS.										MORTALITY ACCORDING TO—																				
		DEATHS FROM—					DISEASE.					SEX.					DEATHS.															
		NUMBER OF—		RATIO PER 1,000 OF POPULATION FOR ANNUM.			DEATHS FROM—		RATIO PER 1,000 OF POPULATION FOR ANNUUM.			DEATHS.		DEATHS.		RATIO PER 1,000 OF POPULATION FOR ANNUUM.			RATIO PER 1,000 OF POPULATION FOR ANNUUM.													
Burdwan ...	Burdwan ...	10	16	26	183	244	39·7	63	1	18	...	1	22	1·5	...	27·5	...	1·5	31	23·6	23·9	9	13	25·9	42·2	61						
Midnapore ...	Midnapore ...	6	9	15	93	139	23·2	66	1	6	5	2	5	19	...	16	93	77	7·7	29·4	33·4	10	9	30·7	28·1	109						
Hughli ...	Hughli and Chinsurah.	10	17	27	16·4	27·9	44·3	68	...	14	1	...	8	23	...	25·0	16	...	13·1	37·7	32·5	13	10	42·6	32·9	129						
Serampore ...	Serampore ...	10	12	22	19·6	23·6	43·2	83	3	23	4	...	11	44	6·9	...	51·0	7·9	...	21·6	86·4	72·6	26	18	39·7	72·4	137					
Uttarparsa ...	Uttarparsa ...	3,046	5,484	5,510	3	6	28·3	23·3	56·6	100	...	6	1	...	3	...	38·9	9·4	...	28·3	60·1	1	2	17·1	42·2	40						
Howrah ...	Howrah ...	53,183	37,660	90,813	35	28	63	20·0	16·0	26·1	125	11	14	9	...	13	47	6·3	...	7·4	26·9	23·9	25	22	24·5	30·4	80					
Bali ...	Bali ...	7,836	6,979	14,815	5	4	9	17·5	14·0	31·6	125	...	5	...	...	5	...	17·5	...	...	17·5	31·1	4	1	20·5	7·5	333			
Krishnagar ...	Krishnagar ...	13,923	14,214	27,477	1	5	6	1·9	9·5	11·4	50	...	...	...	1	2	3	...	...	19	8·8	5·7	5·7	...	3	11·0				
Nuddea ...	Ranaghat ...	4,058	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	1	1	...	3	5	6·0	...	6·0	18·0	30·0	12·0	3	3	25·8	33·5	77				
Santipore ...	Santipore ...	13,708	15,979	29,687	10	4	14	17·5	7·0	24·5	250	...	7	1	...	2	10	6·6	...	12·3	1·7	...	3·5	17·5	7·0	4	6	15·2	19·5	78		
Jessore ...	Jessore ...	4,830	3,663	8,495	...	1	1	...	6·1	6·1	No male birth.	...	3	...	...	3	...	18·4	...	...	18·4	40·0	2	1	21·5	14·2	151			
Rajshahi ...	Rampore Beedulha	10,766	9,025	19,791	11	9	20	23·9	23·6	52·5	125	...	12	4	...	2	18	...	...	31·5	10·5	...	5·3	47·3	13·1	11	7	53·1	40·3	131
Darjiling ...	Darjiling ...	4,579	3,439	7,018	3	1	4	22·2	7·4	29·6	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca ...	Dacca ...	42,782	37,579	80,161	23	20	48	18·2	12·9	31·1	140	3	19	17	...	31	70	1·9	...	12·3	11·0	...	20·1	45·4	15·0	41	29	49·8	40·3	123		
Narsinganj ...	Narsinganj ...	7,005	4,953	12,561	4	5	9	16·6	20·7	37·3	80	3	3	2	...	6	1·6	12·4	...	23·8	8·3	...	24·8	68·0	10	4	68·4	42·0	163			
Chittagong ...	Chittagong ...	13,340	8,370	22,130	...	4	4	...	9·4	9·4	No male birth.	40	...	1	...	3	4	...	2·3	...	...	7·0	9·4	14·1	...	4	...	23·7	No male death.	32
Tipperah ...	Comilla ...	8,153	5,353	13,406	2	6	7	7·7	19·3	27·0	40	...	5	...	1	6	...	1·6	...	19·3	...	...	3·8	23·1	19·3	2	4	12·8	38·9	125
Patna ...	Patna City ...	78,733	81,475	160,237	23	19	41	7·1	6·2	13·3	116	9	21	6	...	8	44	2·9	...	6·8	1·9	...	2·6	14·3	23	21	15·2	13·4	113			
Gya ...	Gya ...	...	...	...	15	13	28	17·9	15·6	23·5	115	1	...	9	1	...	11	1·2	...	10·8	1·2	...	...	13·2	18·0	4	7	9·9	16·2	61
Shahabad ...	Arrah ...	20,960	22,605	43,465	15	13	28	17·9	15·6	23·5	115	1	...	9	1	...	4	1·4	...	9·7	1·2	...	...	13·2	18·0	4	7	9·9	16·2	61
Moraiapore ...	Moraiapore ...	23,084	19,658	42,712	3	6	9	3·6	7·3	10·5	50	...	8	1	1	4	...	9	42	...	21·2	4·7	...	7·1	33·0	13·9	34	8	13·5	21·3	63	
Durbanga ...	Durbanga ...	33,774	32,322	66,096	26	25	51	20·4	19·7	40·1	104	...	27	6	...	7	13	2·0	...	7·0	23·1	8·0	5	3	10·4	15·7	63					
Sarun ...	Churna ...	25,116	26,154	51,070	13	11	22	11·0	22·1	100	2	1	2	...	7	21	9·9	...	15·6	1·8	...	2·7	29·0	17·1	12	9	21·1	16·8	125			
Rhangpurpore ...	Rhangpurpore ...	29,640	37,813	57,463	10	17	27	9·0	15·4	24·4	53	1	15	2	...	3	21	9·9	...	13·6	4·5	...	6·3	26·2	27·1	16	13	29·6	23·0	193		
Moughly ...	Moughly ...	25,154	29,366	57,530	16	27	43	14·5	24·4	38·9	69	6	11	5	...	7	29	5·4	...	3·4	3·4	6·3	6·9	13·9	2	12·3	No female death.	75
Purnesh ...	Purnesh ...	8,463	6,653	16,016	3	...	3	10·4	10·4	No female birth.	230	4	1	12	5	1	5	28	8·4	2·1	23·1	10·5	58·7	35·0	13	15	51·0	67·6	63			
Poori ...	Poori ...	13,247	11,857	24,784	5	2	7	10·5	4·2	14·7	230	4	1	12	5	1	5	28	8·4	2·1	23·1	10·5	58·7	35·0	13	15	51·0	67·6	63			
TOTAL ...	TOTAL ...	512,656	472,757	985,483	250	264	514	13·2	13·9	27·1	24	44	3	241	73	7	133	500	2·3	2·3	127	3·8	...	2·3	275	225	247	113	113	113		

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO—												MORTALITY ACCORDING TO—																	
		Class.						Ages.						Class.						Ages.											
		DEATHS AMONG—				RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS.				RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS.				RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS.				RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS.								
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.		Christians.	Hindus.	Mahomedans.	Buddhists.		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan ...	1	20	1	...	...	388·1	43·9	5·1	...	...	4	4	1	3	...	2	1	5	...	2	315·2	92·2	22·3	62·0	...	13·1	7·5	58·9	...	70·2
Midnapore ...	Midnapore ...	...	13	6	...	...	...	26·1	43·2	...	...	5	...	1	...	3	5	2	...	3	216·0	93·7	36·0	21·0	...	49·4	35·4	18·8	27·9	...	85·2
Hughli ...	Hughli and Chin-saroh.	...	21	2	...	...	...	45·2	16·9	...	...	2	4	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Serampore ...	Serampore ...	...	38	6	...	...	...	78·3	332·6	...	...	5	5	2	3	1	7	7	3	1	10	366·2	144·0	41·4	70·3	23·8	67·6	73·2	46·2	27·2	373·8
Utterpara ...	Utterpara ...	...	3	...	...	...	...	26·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah ...	Howrah ...	1	34	12	...	...	27·5	25·9	30·4	...	...	4	6	2	2	2	7	6	8	3	7	100·8	56·3	16·5	15·8	14·2	16·0	16·2	35·4	28·4	97·0
Bali ...	Bali ...	...	4	1	...	...	...	15·5	39·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	53·7	49·6	71·0
Krishnagar ...	Krishnagar ...	...	1	2	...	...	...	2·8	12·6	...	...	9	1	...	...	...	...	...	...	...	...	209·7	21·1	...	...	...	...	...	...	...	...
Nuddea ...	Ranaghat ...	...	5	...	...	...	...	35·3	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	59·9	...	...	41·7	51·8	...	182·8
	Santipore ...	...	9	1	...	...	...	22·6	5·8	...	...	2	2	...	...	...	...	...	...	...	...	123·1	35·9	...	...	...	...	...	24·0	45·2	53·0
Jessore ...	Jessore ...	...	1	2	...	...	...	11·5	27·2	...	...	...	...	1	...	...	1	1	1	...	...	...	...	65·6	...	...	34·0	49·5	...	...
Rajshahya ...	Rampore Beulaeh.	...	4	14	...	...	...	21·0	74·2	...	...	3	1	3	1	...	3	1	1	2	2	334·2	36·7	75·0	23·9	...	37·5	14·4	42·4	83·8	108·0
Darjiling ...	Darjiling ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca ...	Dacca ...	1	37	32	...	...	109·5	47·7	42·3	...	...	12	2	4	2	9	10	9	6	4	12	328·8	14·1	21·0	13·1	64·1	33·9	40·1	37·2	43·9	112·0
	Narainganj ...	...	6	8	...	...	...	49·3	67·5	...	...	3	2	...	1	1	1	1	1	1	1	559·1	91·2	...	45·8	49·8	19·5	24·3	...	63·5	319·9
Chittagong ...	Chittagong ...	1	...	3	...	...	65·3	...	16·2	...	...	2	...	...	...	...	...	...	1	...	1	184·7	...	...	...	...	...	...	23·0	...	65·3
Tipperah ...	Comilla ...	...	3	3	...	...	26·2	21·1	...	...	3	1	...	1	...	1	...	1	...	...	525·3	39·8	...	41·3	...	...	39·6	...	...	...
Patna ...	Patna City ...	...	35	9	...	...	...	15·3	11·4	...	...	5	3	3	2	2	4	9	4	3	9	60·3	10·7	9·3	7·2	9·3	7·2	20·1	11·0	11·0	33·9
Gya ...	Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shahsbad ...	Arrah ...	...	8	3	...	...	...	13·4	12·6	...	...	1	2	...	1	2	...	1	...	1	3	40·4	23·5	...	11·8	32·4	...	8·1	...	16·8	54·1
Mozufferpore ...	Mozufferpore ...	...	6	8	...	...	...	10·4	33·3	...	...	5	1	...	1	2	1	1	1	2	272·3	12·9	...	17·2	12·1	7·5	10·4	16·0	42·7	...	
Durbhanga ...	Durbhanga ...	1	34	7	...	...	460·2	36·5	29·7	...	...	9	8	4	1	2	2	5	3	1	7	300·6	54·7	26·6	9·4	25·9	7·8	23·3	21·0	11·9	114·0
Barun ...	Chupra ...	...	7	6	...	...	...	9·2	26·2	...	...	4	...	...	...	1	3	...	3	2	147·4	...	...	...	...	...	5·6	20·0	...	37·7	39·6
Bhagulpore ...	Bhagulpore ...	...	15	6	...	...	...	19·6	18·1	...	...	4	3	3	...	1	3	...	4	...	3	174·2	28·8	26·6	...	12·4	14·3	...	33·0	...	43·3
Monghyr ...	Monghyr ...	...	24	5	...	...	...	27·9	20·7	...	...	6	3	1	1	2	2	6	2	...	6	210·1	25·1	7·4	9·1	27·5	10·1	35·0	16·3	...	87·0
Purneah ...	Purneah ...	...	2	...	...	...	...	11·3	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	31·6	...	...	...	...	...
Poori ...	Poori ...	...	28	...	...	...	...	59·4	...	...	...	4	1	2	...	...	6	1	...	8	6	696·5	28·9	46·4	...	59·1	12·8	...	186·5	172·8	...
TOTAL ...		5	358	137	...	...	37·5	26·7	25·6	...	...	83	56	20	19	27	57	62	49	33	91	182·9	30·0	14·6	11·0	18·5	15·1	19·8	22·1	24·2	78·1

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of August 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
{ MACHGONG , , 4 , ,

Number of boats rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
23	1. Grain	52	103	155	10,360	155	10,360		
...	2. Cotton	....	....	....	....	....	....
...	3. Oilseeds	....	....	....	....	....	....
3	4. Salt	....	29	29	3,150	29	3,150	
...	5. Piece-goods	....	....	....	....	....	....
...	6. Metal	....	....	....	....	....	....
...	7. Building materials	....	....	....	....	....	....
19	8. Miscellaneous	25	178	203	3,387	203	3,387		
1	9. Fuel	4	....	4	20	4	20	
1 raft	10. Timber	....	4 No.	4 No.	20	4 No.	20	
...	11. Bamboos	....	....	....	....	....	....
—	—	—	—	—	—	—	—		
16 & raft.	12. Total	...	{ 81	310 & 4 No.	391 & 4 No.	{ 391 & 4 No.	{ 16,937		
—	—	—	—	—	—	—	—		
18 & rafts.	13. Total of same month last year.	{ 74	493 & 2,300 No.	567 & 2,300 No.	{ 24,558	{ 567 & 2,300 No.	{ 24,558		

	Up.	Down.	Total.		Rs. A. P.
Total number of boats plying cargo No.	14	32	46	Total tollage of month— 24 + 25 + 26 ...	147 0 6
Total number of boats plying passenger No.	1	....	1		
Do. empty boats ,	38	11	49	Total tollage of same month last year ...	244 3 6
Total registered tonnage, cargo Tons	81	310	391		
Do. empty Govt.	5	....	5		
Total registered tonnage, passenger Tons	1	....	1	<i>Memorandum of Tollage.</i>	
Do. empty boats ton mileage ...	2,643	1,123	3,766		
Ton-mileage ...	4,087	6,740	10,827		
Estimated value of cargo Rs.	7,100	9,817	16,917	1. Balance not recovered on the 1st of the month ...	46 13 0
Number of passengers ...	1	....	1	2. Tollage per month ...	147 0 6
Rafts, bamboos C. ft.	....	....	....
Do., bullahs No.	2....	4	4		
Estimated value of rafts Rs.	....	20	20		
Tollage on boats , ,	53-4-0	91-3-0	144-7-0	3. Total ...	193 13 6
Compounded tollage on boats Rs.	....	....	....	4. Amount credited in the accounts of the month ...	144 4 0
Tollage on rafts , ,	....	1-1-6	1-1-6		
Demurrage of one boat	1-8-0	....	1-8-0		
Total tollage on boats per ton-mile Rs.	....	....	0-0-2-60	5. Balance due at the end of the month ...	49 9 6
Total tollage on rafts per 100 cubic feet Rs.	....	....	....

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.
		Up.	Down.	Total.			
209	1. Grain ...	376	2,775	3,151	2,57,140	3,151	2,57,140
2	2. Cotton ...	59	.....	59	16,000	59	16,000
59	3. Oilseeds ...	42	1,452	1,494	1,99,600	1,494	1,99,600
20	4. Salt ...	64	15	79	6,500	79	6,500
1	5. Piece-goods ...	22	.....	22	6,000	22	6,000
1	6. Metal ...	1	.....	1	100	1	100
24	7. Building materials ...	9	261	270	9,420	270	9,420
123	8. Miscellaneous ...	747	391	1,138	2,36,890	1,138	2,36,890
29	9. Fuel ...	125	34	159	550	159	550
...	10. Timber ...	...	.....	.....	.....	.....	...
...	11. Bamboos ...	...	....	....	....	....	....
468	12. Total ...	1,445	4,928	6,373	7,32,200	6,373	{ 7,32,200
247 & 1 raft.	13. Total of same month last year.	{ 1,321	982 & 4 No.	2,303 & 4 No.	2,57,670 {	2,283 & 4 No.	} 2,57,630
		Up.	Down.	Total.			
14. Total number of boats plying cargo	No.	169	299	468			Rs. A.
15. Total number of boats plying passenger	No.	49	48	97	Total tollage of month— 24 + 25 + 26	... 7,525 6	
15½. Ditto empty boats ,,		276	107	383	Total tollage of same month last year ...	3,621 8	
16. Total registered tonnage, cargo, private Tons	Tons	3,004	8,232	11,236			
16½. Ditto Government ditto ,,		.....	.....	.....
17. Total registered tonnage, passenger Tons	Tons	1,888	1,737	3,625	<i>Memorandum of Tollage.</i>		
17½. Ditto empty boats ,,		2,826	546	3,372			Rs. A.
18. Ton-mileage ...		3,24,717	4,25,298	7,50,015	1. Balance not recovered on the 1st of the month ...	5,278 10	
19. Estimated value of cargo Rs.	Rs.	2,35,910	4,96,290	7,32,200	2. Tollage per month ...	7,525 6	
20. Number of passengers ...	...	1,604	975	2,579			
21. Rafts, bamboos C. ft.	C. ft.	.....	....	.....
22. Do., bullahs ,,		.....	....	.....
23. Estimated value of rafts Rs.	Rs.	.....	....	.....
24. Tollage on boats ,,		2,774-0-1	4,751-5-11	7,525-6-0	3. Total ...	12,804 0	
25. Compounded tollage on boats Rs.	Rs.	.....	....	.....	4. Amount credited in the accounts of the month ...	5,190 7	
26. Tollage on rafts ,,		.....	....	.....
27. Total tollage on boats per ton-mile Rs.	Rs.	.....	....	0-0-1-9	5. Balance due at the end of the month ...	7,613 9	
28. Total tollage on rafts per 100 cubic feet Rs.	Rs.	.....	....	.....

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
134	1. Grain	...	508	2	510	28,880	510	28,880	
4	2. Cotton	...	4	37	41	11,000	41	11,000	
10	3. Oilseeds	...	52	4	56	4,630	56	4,630	
54	4. Salt	...	.....	155	155	12,690	155	12,690
...	5. Piece-goods	...	.....	.....	.....	.....	.....	.....
...	6. Metal	...	.....	.....	.....	.....	.....	.....
12	7. Building materials	...	25	27	52	2,430	52	2,430	
59	8. Miscellaneous	...	79	125	204	19,770	204	19,770	
...	9. Fuel	...	.....	.....	.....	.....	.....	.....
...	10. Timber	...	.....	.....	.....	.....	.....	.....
...	11. Bamboos	...	.....	.....	.....	.....	.....	.....
273	12. Total	...	668	350	1,018	79,400	1,018	79,400	
258	13. Total of same month last year	...	796	330	1,126	92,130	1,126	92,130	
		Up.	Down	Total.	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P.		
Total number of boats plying cargo	No.	171	102	273	1,022 11 9				
Total number of boats plying passenger	No.	20	22	42	Total tollage of same month last year		750 2 0		
Do. empty boats	"	42	107	149	<i>Memorandum of Tollage.</i>				
Total registered tonnage, cargo, private	Tons	1,601	827	2,428					
Ditto Govt. ditto	"	.....	.....	.....		
Total registered tonnage, passenger	Tons	360	360	720	1. Balance not recovered on the 1st of the month ...				
Do. empty. boats	"	159	482	641			440 10 6		
Ton-mileage	"	62,640	47,029	1,09,669					
Estimated value of cargo	Rs.	38,560	40,840	79,400	2. Tollage per month	...	1,022 11 9		
Number of passengers	...	388	365	753					
Rafts, bamboos	C. ft.	.....	.....	.....		
Do., bullahs	"	.....	.....	.....	3.	Total	... 1,463 6 3	
Estimated value of rafts	Rs.	.....	.....	...		
Tollage on boats	"	598-3-0	424-8-9	1,022-11-9	4. Amount credited in the accounts of the month		1,050 0 6		
Compounded tollage on boats	Rs.	.....	.....	.....		
Tollage on rafts	"	.....	.....	.....		
Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-1-8	5. Balance due at the end of the month ...		413 5 9	
Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	.....		

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.
		Up.	Down.	Total.			
63	1. Grain ..	178	12	190	11,267	190	11,267
...	2. Cotton ..	.....	12	.....	2,624	26	2,624
5	3. Oilseeds ..	12	14	26	344	3	344
1	4. Salt ..	.....	3	3	.....	.....	.....
...	5. Piece-goods ..	.....	.....	.....	.....	.....	.....
...	6. Metal ..	.....	.....	.....	.....	.....	.....
3	7. Building materials ..	5	10	15	200	15	200
18	8. Miscellaneous ..	.....	52	52	6,980	52	6,980
...	9. Fuel ..	.....	.....	.....	.....	.....	.....
7 rafts	10. Timber (No. 475)	.....	2,850 c. ft.	2,850 c. ft.	1,034	2,850 c. ft.	1,034
...	11. Bamboos ..	.....	.....	.....	.....	.....	.....
90 & 7 rafts.	12. Total ..	{ 195	91	286	{ 22,449	{ 286	{ 22,449
2,850 c. ft.		.....	2,850 c. ft.	2,850 c. ft.	.....	2,850 c. ft.	.....
122 & 1 raft.	13. Total of same month last year.	{ 285	118 & 24 c. ft.	403	{ 23,344	{ 398½	{ 23,212
		.....	24 c. ft.	24 c. ft.	.....	24 c. ft.	.....
14.	Total number of boats ply- ing cargo ... No.	61	29	90	Total tollage of month— 24 + 25 + 26 ...	294	4
15.	Total number of boats ply- ing passenger ... No.	18	18	36			
15½.	Ditto empty boats ..,	31	48	79	Total tollage of same month last year ...	174	2
16.	Total registered tonnage, cargo and boats Tons	384	194	578			
16½.	Ditto Govt. ditto ..,	.....	.....	.....	<i>Memorandum of Tollage.</i>		
17.	Total registered tonnage, passenger Tons	441	448	889			
17½.	Ditto empty ditto ..,	108	130	238	1. Balance not recovered on the 1st of the month ...	4	4
18.	Ton-mileage	11,108	9,264	20,372			
19.	Estimated value of cargo Rs.	11,116	10,299	21,415			
20.	Number of passengers ...	296	283	579	2. Tollage per month ...	294	4
21.	Rafts, bamboos C. ft	.....	.....	.....
22.	Do., bullahs ..,	.....	2,850	2,850			
23.	Estimated value of rafts Rs.	.....	1,034	1,034	3. Total ...	298	9
24.	Tollage on boats ..,	150-11-9	124-6-6	275-2-3			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...	289	14
26.	Tollage on rafts ..,	.....	19-2-6	19-2-6			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-61	5. Balance due at the end of the month ...	8	11
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-10-2			

* This is exclusive of annas 5 remitted by the Toll Collector of Rosya during the month of March 1890.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
46	1. Grain	108	10	118	7,141	118	7,141		
..	2. Cotton .....	.....	.....	.....	.....	.....	.....
1	3. Oilseeds .....	.....	6	6	692	6	692	
2	4. Salt .....	.....	7	7	800	7	800	
..	5. Piece-goods .....	.....	.....	.....	.....	.....	.....
..	6. Metal .....	.....	.....	.....	.....	.....	.....
1	7. Building materials .....	.....	2	2	120	2	120	
4	8. Miscellaneous .....	.....	26	26	5,040	26	5,040	
..	9. Fuel .....	.....	.....	.....	.....	.....	.....
1 raft	10. Timber (No. 6) .....	.....	36 c. ft.	36 c. ft.	2	36 c. ft.	2	
1 "	11. Bamboos .....	.....	100 No.	100 No.	5	100 No.	5	
54 & 2 rafts }	12. Total ...	{ 108	51	159	{ 13,800	{ 159	{ 13,800		
		{	36 c. ft.	36 c. ft.	{ 100 No.	{ 36 c. ft.	{ 100 No.		
		{	100 No.	100 No.					
66 & 20 rafts	13. Total of same month last year ...	{ 157	72 & 1,392 c. ft.	229 & 1,392 c. ft.	{ 14,945	{ 199 & 1,392 c. ft.	{ 14,720		

* This includes annas 10 more recovered during the month of March 1890.

		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo	No.	44	10	54	Total tollage of month— 24 + 25 + 26	...	222 8 6
15. Total number of boats plying passenger	No.	18	18	36			
15½. Ditto empty boats	"	15	42	57	Total tollage of same month last year ...	...	109 9 0
16. Total registered tonnage, cargo and boat	Tons	200	87	287			
16½. Ditto Govt. boats	"	10	.....	10	<i>Memorandum of Tollage.</i>		
17. Total registered tonnage, passenger	Tons	447	450	897			
17½. Ditto empty boats	"	50	92	142			
18. Ton-mileage	...	13,433	11,951	25,384	1. Balance not recovered on the 1st of the month	...	—0 10 0
19. Estimated value of cargo	Rs.	6,055	7,738	13,793	2. Tollage per month	...	222 8 6
20. Number of passengers	...	264½	216½	481	3. Total	...	221 14 6
21. Rafts, bamboos	No.	.....	100	100	4. Amount credited in the accounts of the month	...	221 14 6
22. Do., bullahs	C. ft	.....	36	36	5. Balance due at the end of the month	...	.....
23. Estimated value of rafts	Rs.	.....	7	7			
24. Tollage on boats	"	121-10-0	100-13-0	222-7-0			
25. Compounded tollage on boats	Rs.	.....	.....	.....
26. Tollage on rafts	"	.....	0 1 6	0 1 6			
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-1-59			
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0 1 5			

JAJEPORE CANAL

LENGTH OF CANAL OPEN, $6\frac{1}{2}$ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
24	1. Grain	...	...	13	13	672	13	672
1	2. Cotton	...	...	...	...	30	...	30
3	3. Oilseeds	...	...	9	9	2,500	9	2,500
...	4. Salt	...	...	...	...	...	...	...
...	5. Piece-goods	...	...	...	...	...	...	...
...	6. Metal	...	...	...	...	...	...	...
...	7. Building materials	...	...	...	...	...	...	...
12	8. Miscellaneous	...	...	19	19	3,565	19	3,565
4	9. Fuel	...	...	22	22	28	22	28
5 rafts.	10. Timber	...	2,166 c. ft.	2,166 c. ft.	1,083	2,166 c. ft.	1,083		
...	11. Bamboos	...	...	...	...	...	...
44 & 5 rafts.	12. Total	...	...	63	63 $\frac{1}{2}$ {	7,878	63 $\frac{1}{2}$ {	7,878
9 & 3 rafts.	13. Total of same month last year.	...	2,166 c. ft.	2,166 c. ft.	2,710	1,200 c. ft.	1,200 c. ft.	2,710	
		Up.	Down.	Total.					
14. Total number of boats ply- ing cargo	No.	1	43	44	Total tollage of month— 24 + 25 + 26 ...				
15. Total number of boats ply- ing passenger	No.	3	3	6	30 13 6				
15½. Ditto empty ditto	"	46	1	47	Total tollage of same month last year ...				
16. Total registered tonnage, cargo	Tons	1	106	107	5 1 8				
16½. Ditto Govt. boats	"	....	....	....	<i>Memorandum of Tollage.</i>			
17. Total registered tonnage, passenger	Tons	23	23	46					
17½. Ditto empty ditto	"	57	1	58	Rs. A. P.				
18. Ton-mileage	...	486	780	1,266	1. Balance not recovered on the 1st of the month ...				
19. Estimated value of cargo	Rs.	30	6,765	6,795	1 13 0				
20. Number of passengers	...	....	....	....	2. Tollage per month ...			
21. Rafts, bamboos	C. ft.	Nil	Nil	Nil	30 13 6				
22. Do., bullahs	"	....	2,166	2,166				
23. Estimated value of rafts	Rs.	....	1,083	1,083	32 10 6			
24. Tollage on boats	"	6-1-0	16-13-6	22-14-6					
25. Compounded tollage on boats	Rs.	....	....	....	4. Amount credited in the accounts of the month ...			
26. Tollage on rafts	"	....	7-15-0	7-15-0	24 3 0			
27. Total tollage on boats per ton-mile	Rs.	....	....	0-0-3-46	5. Balance due at the end of the month ...			
28. Total tollage on rafts per 100 cubic feet	Rs.	....	....	0-6-3	8 7 6			

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value. Rupees.	
		Up.	Down.	Total.		Tons.	Rupees.	
1,046	1. Grain ...	5,897	625	6,522	4,13,642	6,522	4,13,642	
2	2. Cotton ...	...	10	10	5,180	10	5,180	
52	3. Oilseeds ...	89	341	430	47,350	430	47,350	
140	4. Salt ...	.....	1,279	1,279	1,28,131	1,279	1,28,131	
14	5. Piece-goods ...	33	42	75	1,87,840	75	1,87,840	
17	6. Metal ...	94	88	182	1,66,805	182	1,66,805	
53	7. Building materials ...	293	77	370	2,753	370	2,753	
547	8. Miscellaneous ...	757	1,906	2,663	6,18,527	2,663	6,18,527	
38	9. Fuel ...	19	259	278	2,096	278	2,096	
3 rafts	10. Timber ...	1,345 c. ft.	.....	1,345 c. ft.	920	1,345 c. ft.	920	
7 "	11. Bamboos ...	2,175 "	.....	2,175 "	178	2,175 "	178	
1,909 & 10 rafts.	12. Total ...	{ 7,182 & 3,520 c. ft.	4,627	11,809 & 3,520 c. ft.	{ 15,73,422	{ 11,809 & 3,520 c. ft.	{ 15,73,422	
941 & 2 rafts.	13. Total of same month last year.	{ 6,798 & 37,133 c. ft.	4,033 & 21 c. ft.	10,831 & 37,154 c. ft.	{ 12,54,674	{ 10,831 & 37,154 c. ft.	{ 12,54,674	

		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo	No.	1,182	727	1,909	Total tollage of month— 24 + 25 + 26	...	10,279 14 6
15. Total number of boats plying passenger	No.	696	708	1,404	Total tollage of same month last year	...	12,032 12 6
15½. Ditto empty	"	365	634	999			
16. Total registered tonnage, cargo	Tons	17,602	11,059	28,661	<i>Memorandum of Tollage.</i>		
17. Total registered tonnage, passenger	Tons	4,081	3,815	7,896			
17½. Ditto empty	"	1,494	2,893	4,387			Rs. A. P.
18. Ton-mileage	...	409,356	259,918	669,274	1. Balance not recovered on the 1st of the month ...	...	4,921 9 10
19. Estimated value of cargo	Rs.	7,78,854	7,93,470	15,72,324	2. Tollage per month	...	10,279 14 6
20. Number of passengers	...	6,398	9,297	15,695	3. Total	...	15,201 8 4
21. Rafts, bamboos	C. ft.	2,175	.....	2,175			
22. Do., bullahs	"	1,345	.....	1,345			
23. Estimated value of rafts	Rs.	1,098	.....	1,098			
24. Tollage on boats	,,	6,416-15-6	3,844-12-0	10,261-11-6			
25. Compounded tollage on boats	Rs.	.....	.....	.....	4. Amount paid into treasury during the month	...	
26. Tollage on rafts	,,	18-3-0	.....	18-3-0			10,210 2 3
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-2-9			
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-8-3	5. Balance due at the end of the month	...	4,991 6 1

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts,	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity, Tons.	Value. Rupees.		
		Up.	Down.	Total.					
519	1. Grain ...	3,799	.....	3,799	1,78,659	3,799	1,78,659	
...	2. Cotton ...	.....	.....	.....	.....	.....	....
8	3. Oilseeds ...	27	23	50	6,510	50	6,510		
72	4. Salt ...	.....	732	732	81,550	732	81,550	
11	5. Piece-goods ...	.....	65	65	45,625	65	45,625	
1	6. Metal ...	.....	2	2	300	2	300	
6	7. Building materials ...	7	63	70	1,865	70	1,865		
833	8. Miscellaneous ...	966	609	1,575	1,11,413	1,575	1,11,413		
9	9. Fuel ...	3	148	151	1,067	119	842		
3 rafts	10. Timber C. ft.	1,815	120	1,935	3,300	1,935	3,300		
...	11. Bamboos ...	.....	.....	.....	.....	.....	....
1,459 & 3 rafts.	12. Total ...	{ 4,802 & 1,815 c. ft.	{ 1,642 & 120 c. ft.	{ 6,444 & 1,935 c. ft.	{ 4,30,289	{ 6,412 & 1,935 c. ft.	{ 4,30,064		
1,086 & 4 rafts.	13. Total of same month last year.	{ 3,377 & 304 c. ft.	{ 1,147 & 69 c. ft.	{ 4,524 & 373 c. ft.	{ 2,86,617	{ 4,494 & 373 c. ft.	{ 2,86,405		
14.	Total number of boats plying cargo No.	Up.	Down.	Total.				Rs. A. F.	
		705	754	1,459	Total tollage of month— 24 + 25 + 26 ...			5,705 5 3	
15.	Total number of boats plying passenger No.	57	54	111	Total tollage of same month last year			3,855 9 3	
16.	Total registered tonnage, cargo Tons	10,127	6,648	16,775					
17.	Total registered tonnage, passenger Tons	553	521	1,074	<i>Memorandum of Tollage.</i>				
18.	Ton-mileage ...	1,93,469	1,30,527	3,23,996				Rs. A. F.	
19.	Estimated value of cargo Rs.	2,05,423	2,21,566	4,26,989					
20.	Number of passengers ...	1,112	1,217	2,329	1. Balance not recovered on the 1st of the month ...			2,165 5 3	
21.	Rafts, bamboos C. ft.	.....	.....	.....	2. Tollage per month ...			5,705 5 3
22.	Do., bullahs "	1,815	120	1,935					
23.	Estimated value of rafts Rs.	3,200	100	3,300	3. Total ...				
24.	Tollage on boats "	3,383-15-0	2,310-14-3	5,694-13-3				7,870 10 6	
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...			
26.	Tollage on rafts "	10-0-0	0-8-0	10-8-0				5,511 13 0	
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-8	5. Balance due at the end of the month			2,358 13 6

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts,	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS
		Quantity—Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
44	1. Grain ...	.....	658	658	48,954	658	48,954	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	56	.....	56	5,444	56	5,444	
15	5. Piece-goods ...	102	6	108	18,845	108	18,845	
...	6. Metal ...	7	1	8	2,460	8	2,460	
8	7. Building materials ...	16	45	61	700	48	425	
35	8. Miscellaneous ...	169	199	368	56,358	368	56,358	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
104	12. Total ...	350	909	1,259	1,32,761	1,246	1,32,486	
120	13. Total of same month last year ...	319	946	1,265	1,40,098	1,257	1,39,723	

	Up.	Down.	Total.	Rs. A. P.
14. Total number of boats plying cargo No.	38	66	104	Total tollage of month—
15. Total number of boats plying passenger No.	6	4	10	24 + 25 + 26 ... 1,380 4 6
15½. Ditto empty boats ,	34	8	42	Total tollage of same month last year ... 1,651 9 7
16. Total registered tonnage, cargo Tons	613	1,338	1,951	
17. Total registered tonnage, passenger Tons	206	164	370	<i>Memorandum of Tollage.</i>
17a. Ditto empty boats ,	218	50	268	
18. Ton-mileage ...	65,131	76,637	1,41,768	Rs. A. P.
19. Estimated value of cargo Rs.	48,897	83,864	1,32,761	
20. Number of passengers ...	475½	349	824½	1. Balance not recovered on the 1st of the month ... 195 2 6
21. Rafts, bamboos C. ft.	.....	.....	.....	2. Tollage per month ... 1,380 4 6
22. Do., bullahs ,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,	451-8-3	778-12-3	1,230-4-6	3. Total ... 1,575 7 0
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0	
26. Tollage on rafts ,	.....	.....	.....	4. Amount credited in the accounts of the month ... 1,401 13 0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-8	
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month 173 10 0

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
37	1. Grain ...	44	387	431	29,079	431	29,079		
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	7	7	400	7	400	
10	4. Salt ...	72	.....	72	10,910	72	10,910	
3	5. Piece-goods ...	11	.....	11	15,230	11	15,230	
1	6. Metal ...	3	.....	3	75,342	3	75,342	
20	7. Building materials ...	33	199	232	3,719	203	3,408		
32	8. Miscellaneous ...	55	128	183	16,653	154	15,888		
22	9. Fuel ...	.....	338	338	4,720	326	4,546	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts	11. { Bullahs ... { Bamboos ...	.....	50	50	150	50	150	
126	12. Total ...	218	1,109	1,327	1,56,203	1,257	1,54,953		
231	13. Total of same month last year.	324	1,474	1,798	2,31,046	1,688	2,30,705		
		Up.	Down.	Total.				Rs. A. P.	
14.	Total number of boats ply- ing cargo No.	32	94	126	Total tollage of month— 24 + 25 + 26 ...			1,356 15 0	
15.	Total number of boats ply- ing passenger No.	4	2	6	Total tollage of same month last year ...			1,412 6 6	
15½.	Total number of empty boats No.	104	3	107					
16.	Total registered tonnage, cargo Tons	424	1,881	2,305					
17.	Total registered tonnage, passenger Tons	72	59	131	<i>Memorandum of Tollage.</i>				
17½.	Total registered tonnage, empty Tons	570	15	585				Rs. A. P.	
18.	Ton-mileage ...	48,058	92,080	140,138	1. Balance not recovered on the 1st of the month ...				
19.	Estimated value of cargo Rs.	1,11,515	44,538	1,56,053	... ...			45 8 6
20.	Number of passengers ...	737	662	1,399	2. Tollage per month ...			1,356 15 0	
21.	Rafts, bamboos C.ft.	.....	.....	.....		
22.	Do., bullahs „	.....	3,800	3,800				
23.	Estimated value of rafts Rs.	.....	150	150				
24.	Tollage on boats „	257-12-3	894-6-9	1,152-3-0	3. Total ...			1,402 7 6	
25.	Compounded tollage on boats Rs.	100-0-0	100-0-0	200-0-0	4. Amount credited in the accounts of the month ...			1,368 6 9	
26.	Tollage on rafts „	.....	4-12-0	4-12-0				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-85	5. Balance due at the end of the month ...			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-0	34 0 9			

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
17	1. Grain ...	2	318	320	22,755	320	22,755		
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	25	25	2,200	25	2,200	
...	4. Salt ...	5	.....	5	820	5	820	
...	5. Piece-goods ...	2	.....	2	1,960	2	1,960	
...	6. Metal ...	.....	.....	.....	.....	.....	.....
19	7. Building materials ...	12	337	349	2,105	20	80		
6	8. Miscellaneous ...	17	76	93	14,960	93	14,960		
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
43	12. Total ...	38	756	794	44,800	465	42,775		
76	13. Total of same month last year.	276	756	1,032	44,483	549	42,042		
		Up.	Down.	Total.					
14.	Total number of boats plying cargo No.	1	42	43				Rs. A. P.	
15.	Total number of boats plying passenger No.	8	9	17	Total tollage of month— 24 + 25 + 26 ...			511 15 9	
15½.	Ditto empty ,,	29	4	33					
16.	Total registered tonnage, cargo Tons	38	992	1,030	Total tollage of same month last year ...			482 5 9	
17.	Total registered tonnage, passenger Tons	216	243	459					
17½.	Ditto empty ,,	149	19	168					
18.	Ton-mileage ...	6,854	24,979	31,833	<i>Memorandum of Tollage.</i>				
19.	Estimated value of cargo Rs.	8,056	36,744	44,800				Rs. A. P.	
20.	Number of passengers ...	571	684	1,255	1. Balance not recovered on the 1st of the month ...				
21.	Rafts, bamboos C. ft.	.....	.....	.....				1 3 6
22.	Do., bullahs ,,	.....	.....	.....	2. Tollage per month ...			511 15 9
23.	Estimated value of rafts Rs.	.....	.....	....		
24.	Tollage on boats ,,	33-11-0	264-4-9	297-15-9	3. Total ...			513 3 3	
25.	Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0	4. Amount credited in the accounts of the month ...				
26.	Tollage on rafts ,,	.....	.....	.....				489 10 9
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3	5. Balance due at the end of the month ...			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	....				23 8 6

ABSTRACT FOR THE MONTH OF AUGUST 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.						REMARKS
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
<i>Orissa Circle.</i>													
Taldunda Canal System ...	147	0	6	1,509	4	8	244	3	6	2,265	9	4	
Kendrapara Canal System ...	7,525	6	0	26,322	11	3	3,621	8	11	17,716	15	1	
High Level, Range I ...	1,022	11	9	3,863	9	9	750	2	0	2,823	8	2	
<i>Ditto</i> " II ...	294	4	9	1,429	6	6	174	2	0	1,277	14	3	
<i>Ditto</i> " III ...	222	8	6	1,045	6	9	109	9	0	634	5	9	
Jajepore Canal ...	30	13	6	100	3	10	5	1	8	35	1	8	
Total Orissa Circle ...	9,242	13	0	34,270	10	9	4,904	11	1	24,753	6	3	
<i>South-Western Circle.</i>													
Midnapore Canal ...	10,279	14	6	52,845	5	9	12,032	12	6	64,793	7	3	
Hidgellee Tidal Canal ...	5,705	5	3	14,753	15	0	3,855	9	3	24,477	9	6	
Total South-Western Circle	15,985	3	9	67,599	4	9	15,888	5	9	89,271	0	9	
<i>Sone Circle.</i>													
Patna Canal System ...	1,380	4	6	10,539	9	8	1,651	9	7	12,619	3	9	
Arrah ditto ...	1,356	15	0	8,886	13	6	1,412	6	6	8,344	4	11	
Buxar ditto ...	511	15	9	3,932	6	3	482	5	9	3,275	11	5	
Total Sone Circle ...	3,249	3	3	23,358	13	5	3,546	5	10	24,239	4	1	
GRAND TOTAL ...	28,477	4	0	1,25,228	12	11	24,339	6	8	1,38,263	11	1	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757 15
Total Orissa Circle ...	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757 15

TOTAL NAVIGATION RECEIPTS.

CANAL	EARNINGS, 1890-91.						EARNINGS, 1889-90.						REMARKS	
	During the month.			To end of the month.			During the month.			To end of the month.				
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.		
Orissa Canals	...	9,964	0	7	38,622	4	7	5,305	13	10	27,511	5	6	
Midnapore Canal	...	10,279	14	6	52,845	5	9	12,032	12	6	64,793	7	3	
Hidgellee Tidal Canal	...	5,705	5	3	14,753	15	0	3,855	9	3	24,477	9	6	
Sone Canals	...	3,249	3	3	23,358	13	5	3,546	5	10	24,239	4	1	
Total	...	29,198	7	7	1,29,580	6	9	24,740	9	5	1,41,021	10	4	

CALCUTTA,
The 9th December 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 10, 1890. 2547

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 6th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 6TH DECEMBER 1890.				WEEK ENDING SATURDAY, THE 7TH DECEMBER 1889.			
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.		
	No.	Mds.	Rs.	No.	Mds.	Rs.		
Rice and paddy	... 483	58,325	866	544	36,075	459		
Jute	... 317	2,05,425	3,638	351	1,68,000	3,020		
Firewood	... 122	72,750	1,039	145	91,575	1,324		
Other articles	... 942	2,34,015	4,036	1,009	2,59,610	3,978		
Total	... 1,864	5,70,515	9,579	2,049	5,55,260	8,781		

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise,	Total.
Total traffic for the week	272,797	Rs. A. P. 3,12,889 8 0	Mds. S. 21,86,394 10	Rs. A. P. 6,29,201 15 6	Rs. A. P. 16,946 3 0	Rs. A. P. 9,65,037 10 6	Rs. A. P. 69,622½	Rs. A. P. 88,610½	Train-miles run 155,232½
Or per mile of railway	209 0 7		412 7 4		11 1 9	632 9 8	.....	.....	.....
For previous 21 weeks of half-year	4,731,155	51,14,734 7 0	3,91,93,414 0	93,18,894 11 6	3,35,909 10 5	1,47,70,538 12 11	1,365,300	1,588,960½	2,954,860½
Total for 22 weeks	5,003,952	54,83,623 15 0	4,15,79,808 10	90,48,096 11 0	3,53,855 13 5	1,57,35,576 7 5	1,434,922½	1,677,571	3,112,498½
COMPARISON.									
Total for corresponding week of previous year	246,877	Rs. A. P. 3,10,007 * 0 8	Mds. S. 23,21,610 0	Rs. A. P. 5,99,576 10 6	Rs. A. P. 20,979 9 4	Rs. A. P. 9,30,563 4 6	Rs. A. P. 68,645	Rs. A. P. 86,690	Train-miles run 155,544
Per mile of railway corresponding week of previous year	.....	203 3 6	.....	393 0 7	13 12 0	610 0 1	.....	.....	.....
Total to corresponding date of previous year	5,301,460½	58,81,716 15 3	4,62,91,909 30	1,03,02,032 10 6	3,63,362 12 5	1,66,37,112 6 2	1,444,292	1,766,230	3,210,523

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
1,525½	Rs. 9,30,563	Rs. 610	Rs. 9,65,038	Rs. 633	1,525½	Rs. 2,86,03,864	Rs. 537	1,525½	Rs. 2,67,67,967	Rs. 501	.....	18,95,897	

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	23,681	Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Or per mile of railway ...	414	*12,529 11 0	48,455 20	3,145 6 0	38 4 0	15,713 5 0	1,943	793	2,7
For previous 21 weeks of half-year ...	265,111	219 0 10	847 10	54 15 10	0 10 8	274 11 4	.....	.....	.....
Total for 22 weeks ...	288,792	1,55,264 1 0	7,24,026 30	47,741 7 0	685 9 0	2,03,691 1 0	29,414 1	11,349	40,76
COMPARISON.									
Total for corresponding week of previous year ...	11,218	5,927 5 0	34,294 0	2,382 2 0	55 4 0	8,364 11 0	1,820	574	2,38
Per mile of railway corresponding week of previous year ...	196	103 10 0	599 30	41 10 4	0 15 5	146 3 9	.....	.....	.....
Total to corresponding date of previous year ...	306,435 1	1,71,434 6 11	9,97,245 20	50,188 6 0	1,552 1 0	2,23,174 13 11	34,302	16,122	60,42

* The increase due to Sonepore Fair and an eclipse of the moon.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
57½	Rs. 8,365	Rs. 146	57½	Rs. 15,713	Rs. 275	57½	Rs. 3,37,171	168	57½	Rs. 3,48,364	Rs. 174	11,193	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 29½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	15,126	Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Or per mile of railway ...	225 0 6		11,213 30	485 13 0	7 0 0	5,499 11 0	889	79	98
For previous 21 weeks of half-year ...	346,714	225 0 6	1,45,152 20	5,325 8 0	21 13 4	247 2 10	.....	.....	.....
Total for 22 weeks ...	361,830	89,603 8 0	1,56,386 10	5,811 4 0	122 6 0	90,044 7 0	18,967	1,031	19,96
COMPARISON.									
Total for corresponding week of previous year ...	18,693	4,702 1 8	27,927 20	580 14 0	5 10 0	5,288 9 8	898	154	1,033
Per mile of railway corresponding week of previous year ...	.....	211 5 3	.....	26 1 8	0 4 1	237 11 0	.....	.....	.....
Total to corresponding date of previous year ...	392,176	95,887 13 5	2,23,868 10	5,920 6 0	130 1 9	1,01,938 4 2	20,197	1,678	21,875

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
22½	Rs. 5,289	Rs. 238	22½	Rs. 5,500	Rs. 247	22½	Rs. 1,84,576	237	22½	Rs. 1,86,694	Rs. 232	.....	2,083

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 22nd November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANTISH AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,60,824	86,770 0 0	6,54,804 0	1,78,660 0 0	19,330 0 0	2,78,780 0 0	23,888	35,079	58,967
Or per mile of railway ...	211	106 0 0	858 0	234 0 0	12 0 0	342 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	2,750,649	12,14,466 0 0	3,18,95,611 0	30,14,102 0 0	3,26,146 0 0	*45,54,714 0 0	480,406	605,966	1,096,465
Total for 21 weeks ...	2,911,473	12,95,236 0 0	3,25,50,415 0	31,92,762 0 0	3,45,496 0 0	48,33,494 0 0	484,387	701,045	1,155,432
COMPARISON.									
Total for corresponding week of previous year ...	127,531	67,782 0 0	6,58,665 0	1,85,248 0 0	18,590 0 0	2,71,620 0 0	32,245	35,381	57,230
Per mile of railway corresponding period of previous year ...	171	91 0 0	882 0	248 0 0	11 0 0	340 0 0	.....	.....	.....
Total to corresponding date of previous year ...	2,989,504	13,50,613 0 0	3,31,33,732 0	32,67,462 0 0	3,66,506 0 0	49,84,581 0 0	473,732	674,301	1,148,033

* Audited up to week ending 4th October 1890.

† Excluding steamer earnings.

a Due to Pingerapole mella at Sodepur.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
747	Rs. 2,71,620	Rs. 364	763	Rs. 2,78,780	Rs. 365	716	Rs. 71,20,623	293	Rs. 760	Rs. 279	*72,16,152	96,129	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANTISH AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,467	12,220 0 0	35,912 0	3,040 0 0	1,100 0 0	16,860 0 0	3,718	1,992	5,710
Or per mile of railway ...	220	98 0 0	287 0	24 0 0	9 0 0	131 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	409,355	1,63,222 0 0	8,27,897 0	67,176 0 0	3,387 0 0	*2,33,785 0 0	71,672	40,860	112,532
Total for 21 weeks ...	526,822	1,75,442 0 0	8,63,869 0	70,216 0 0	4,487 0 0	2,50,145 0 0	75,390	45,853	118,242
COMPARISON.									
Total for corresponding week of previous year ...	23,931	8,526 0 0	29,943 0	1,945 0 0	34 0 0	10,565 0 0	3,587	2,086	5,672
Per mile of railway corresponding period of previous year ...	191	68 0 0	239 0	16 0 0	.....	84 0 0	.....	.....	.....
Total to corresponding date of previous year ...	575,906	1,98,007 0 0	12,24,083 0	1,13,455 0 0	8,525 0 0	3,14,987 0 0	74,356	51,188	125,544

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
126	Rs. 10,505	Rs. 84	125	Rs. 16,360	Rs. 131	125	Rs. 4,94,834	116	Rs. 125	Rs. 98	79,249	

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	18,804	Rs. A. P. 6,730 0 0	Mds. S. 35,733 0	Rs. A. P. 3,590 0 0	Rs. A. P. 100 0 0	Rs. A. P. 10,420 0 0	2,700	953	3,6
Or per mile of railway	219	78 0 0	415 0	42 0 0	1 0 0	121 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	296,782	96,453 0 0	3,98,673 0	37,053 0 0	5,341 0 0	*1,38,840 0 0	47,601	14,151	61,7
Total for 21 weeks ...	315,586	1,03,183 0 0	4,34,406 0	40,646 0 0	5,441 0 0	1,40,260 0 0	50,301	15,104	65,6
COMPARISON.									
Total for corresponding week of previous year ...	17,033	5,716 0 0	39,517 0	3,772 0 0	181 0 0	9,919 0 0	2,518	928	3,4
Per mile of railway corresponding period of previous year ...	198	66 0 0	489 0	44 0 0	2 0 0	112 0 0	.....	.....	.....
Total to corresponding date of previous year ...	318,150	1,02,199 0 0	5,08,723 0	42,709 0 0	4,270 0 0	1,49,178 0 0	52,287	19,647	71,9

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
86	Rs. 9,619	Rs. 112	Rs. 86	Rs. 10,420	Rs. 121	Rs. 86	Rs. 2,23,457	Rs. 76	Rs. 86	*2,31,130	Rs. 79	Rs. 7,673	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	3,925	Rs. A. P. 1,270 0 0	Mds. S. 9,685 0	Rs. A. P. 550 0 0	Rs. A. P. 20 0 0	Rs. A. P. 1,940 0 0	500	250	75
Or per mile of railway	118	50 0 0	355 0	20 0 0	1 0 0	71 0 0	.....	.....	.....
For previous 20 weeks of half-year ...	57,609	20,605 0 0	2,06,485 0	10,951 0 0	333 0 0	*31,889 0 0	10,752	6,554	17,30
Total for 21 weeks ...	60,834	21,975 0 0	2,16,170 0	11,501 0 0	353 0 0	33,829 0 0	11,253	6,804	18,59
COMPARISON.									
Total for corresponding week of previous year ...	3,062	1,168 0 0	8,342 0	566 0 0	319 0 0	2,053 0 0	586	340	92
Per mile of railway corresponding period of previous year ...	112	43 0 0	306 0	21 0 0	11 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year ...	65,178	23,826 0 0	1,80,733 0	11,942 0 0	1,765 0 0	37,503 0 0	12,156	7,367	19,82

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
27½	Rs. 2,053	Rs. 75	27½	Rs. 1,940	Rs. 71	27½	Rs. 65,082	Rs. 68	27½	*59,831	Rs. 65	.....	2,251

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 22nd November 1890, on 699* miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	85,000	Rs. 34,760	Mds. 3,44,100	Rs. 54,400	Rs. 9,150	Rs. 98,310	12,640	14,704	(a) 27,344
Per mile of railway ...	121'60	49'73	402'27	77'82	13'09	140'64	.....	.....	.....
For previous 19 weeks of half-year ...	1,430,620	5,58,029	52,98,954	6,66,590	1,35,457	13,60,076	241,012	236,557	477,609
Total for 20 weeks ...	1,515,620	5,92,789	56,38,054	7,20,990	b 1,44,807	14,58,386	253,622	251,301	504,953

COMPARISON.

Audited figures.

Total for corresponding week of previous year, 649 miles open...	86,936	Rs. 34,041	3,34,628	Rs. 38,106	Rs. 11,648	Rs. 88,795	12,113	12,044	24,157
Per mile of corresponding week of previous year ...	133'95	52'45	515'61	58'71	17'95	129'11	.....	.....	.....
Total to corresponding date of previous year ...	1,679,995	6,34,731	55,53,985	6,34,941	1,70,638	14,40,310	239,140	231,105	500,246

b Steam-boat earnings for the week

Ditto ditto to date

* Ajodhya bridge earnings for the week

Ditto ditto to date

Train mileage figures :-

a Bengal & N.W. Section.

Rs. Tirhoot Section.

Coaching ... 6,100 Rs. 6,540

Goods ... 7,280 7,424

Total ... 13,380 13,964

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 23RD NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD NOVEMBER 1889.			Total increase in 1890-91	Total decrease in 1890-91
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
699	Rs. 98,310	Rs. 140'64	649	Rs. 83,795	Rs. 129'11	675	Rs. 27,82,066	Rs. 122'77	649	Rs. 27,55,963	Rs. 125'95	26,103	.....

* Due to opening of Kanwa Ghât Extension from 14th November 1890.

N.B.—Earnings of B. and N.W. Section.

Week ended 22-11-90. Week ended 23-11-89.

Earnings of Tirhoot Section.

Week ended 22-11-90. Week ended 23-11-89.

	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Coaching	15,940	16,423	18,820	17,618			
Goods	21,530	15,256	32,870	23,860			
Other earnings	5,450	3,719	3,700	7,929			
Total	42,920	35,398	55,390	48,397			



SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, DECEMBER 17, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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ERRATUM.

The 12th December, 1890.—At page 2265, line 1, to the Supplement to the *Calcutta Gazette* of the 12th November, 1890, for Rs. 12,87,625 read 12,87,625.

P. NOLAN,
Secretary to the Govt. of Bengal.

*Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal,
assembled for the purpose of making Laws and Regulations under the provisions
of the Act of Parliament 24 and 25 Vic., Cap. 67.*

THE Council met at the Council Chamber on Saturday, the 13th December, 1890.

Present:

The Hon'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, presiding.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., Advocate-General.

The Hon'ble H. J. S. Cotton.

The Hon'ble P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, Kt.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The Hon'ble Dr. MAHENDR

The HON'BLE C. H. MOORE.

The HON'BLE SHAHZADA MAHOMMED FU

The HON'BLE DR. RASH BEHARI GHOSE.

The Hon'ble Raja RAMESHWAR SINGH

The Hon'ble A. H. Wallis.

NEW MEMBERS.

The HON'BLE MESSRS. COTTON and WALLIS took their seats in Council.

COURSE OF LEGISLATION.

HIS HONOUR the PRESIDENT said :—“ Gentlemen, I am afraid you will consider that I have called you here to-day rather under false pretences when the ostensible cause is, that I am going to make a statement regarding the course of legislation during the Session. But, as a matter of fact, the statement that I have to make is, regarding the absence of any legislative business.

“ There is on the notice paper a motion in regard to a Bill to repeal certain obsolete enactments. The Government of India in their Legislative Council, in the words of Sir Andrew Scoble, were clearing away dead matter from the Statute Book, and they desired that a similar course should be taken by us in regard to the Bengal Statutes. The Hon'ble Mr. Allen has in hand and will move to-day for leave to introduce a Bill for that purpose, which will be proceeded with somewhat later after careful examination.

“ Then there is another Bill which is on the anvil and which has been printed and is ready to be introduced. But, after some correspondence with the Secretary of State, we find that it will require certain alterations to be made, and it will probably take some little time. It is a Bill in connection with the amendment of the Court of Wards' Act.

“ These are the only two Bills which I can say are at all ready to be laid before the Council at present.

“ There is another Bill which has been printed and circulated and which some of the members may have seen in their capacity as members of the Associations consulted. It has reference to our Bengal Revenue Sale Law. It is a very important Bill and will require careful consideration. But the reports of all the bodies which have been consulted have not yet been received, and it will probably be some months before it will be ready to be laid before the Council.

“ Beyond these Bills I have no work in hand that will require your attention. I am glad, however, of the opportunity of calling you together before my departure; first, that I might have the pleasure of introducing you to my successor, Sir Charles Elliott, and secondly, that I might express, before I go, my gratitude for the assistance you have given me, and my extreme satisfaction at the way in which business has always been conducted in this Council. It is a matter of great regret to me that I am leaving you, and that I shall have nothing more to say in this Council. The Presidency hereafter will devolve on my friend Sir Charles Elliott, and I am quite sure you will give him all the loyal assistance which you have given me in this Council.”

OBSOLETE ENACTMENTS BILL.

The HON'BLE MR. ALLEN moved for leave to infroduce a Bill to repeal certain obsolete enactments and to amend certain other enactments.

He said :—“ The Bill in question is a purely technical one, and I therefore can promise the Council that it will be without a particle of interest for any single member of it, unless it be the hon'ble jurist opposite, who may take the opportunity of favouring us with one of his exhaustive discourses on abstract principles. In fact, however, the Bill is nothing more or less than a waste-paper basket, in which it is desirable to collect some of the litter which still encumbers the Bengal Code. I have already seen the provisions of the Bill, and I do not think it can be better described than the waste-paper basket of the Bengal Council.”

The Motion was put and agreed to.

The Council was adjourned for one month.

CALCUTTA ;

The 15th December, 1890.

C. H. REILY,

*Assistant Secretary to the Govt. of Bengal,
Legislative Department.*

SONTHAL SETTLEMENTS.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 15th December 1890.

RESOLUTION.

READ—

A letter No. 1899R, dated 31st October, 1890, from the Commissioner of the Bhagulpore Division and Sonthal Pergunnahs, with enclosures.

A letter No. 1680T—A, dated 6th December, 1890, from the Director of the Department of Land Records and Agriculture, Bengal, with enclosure.

A note on the proposed rules for settlement of rent in the Sonthal Pergunnahs by Mr. W. Mating Grant, a proprietor of land in that district.

When the settlement of certain private estates was initiated under the Sonthal Pergunnahs Settlement Regulation of 1872, it was originally assumed by the local officers that the rent could be most equitably fixed by applying the recorded village rates to the areas ascertained by the new measurement, but as the work proceeded this course was found to be impracticable. The Deputy Commissioner reported that an assessment framed on this principle would lead to excessive enhancements, injurious to the interests of the landlord as well as to those of the tenants. It, moreover, appeared that these rates had not been strictly enforced at the last settlement; that the measurements then made were very rough; and that the assessment of all newly cultivated land at full rates could not be reconciled with section 21 of the Regulation, which requires the Settlement Officer in any case in which the tenant has reclaimed waste to regard that fact in settling the rents. In view of these considerations, the Commissioner has requested Government to issue instructions for the guidance of Settlement Officers in fixing rents, and the following draft rules have been framed. They are now published for general criticism, and, if no objection to them is received, will be confirmed after the interval of one month.

The first of the draft rules merely draws attention to the fact, which in the correspondence has sometimes been overlooked, that the law requires the Settlement Officer to fix a fair rent in every case, either accepting the existing rent as having that character, or altering it to meet the circumstances as ascertained by the survey. The second is framed on the principle that existing rents must, in the absence of an alteration in area shown by the settlement itself, be assumed to be fair and equitable till the contrary is proved. Rule 3 has been prepared in communication with the local officers to indicate the margin of error which should ordinarily be allowed in view of the rough measurements made at the original settlement. It is not applicable where the particular lands formerly settled are demarcated or can be identified with certainty, so that the new cultivation is clearly distinguishable. Rule 4 embodies the existing practice for the assessment of new lands, which is in conformity with section 21 of the Regulation. The case of villages not previously measured is provided for in the fifth rule. Rule 6 embodies the principle accepted by the Bengal Tenancy Act for giving the landlord the benefit of improvements made by him. The limit imposed on enhancement by the seventh rule is considered necessary to prevent an excessive increase of rent in a district such as the Sonthal Pergunnahs.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

RULES.

1. A fair rent shall be settled FOR EVERY holding.

Method of settling fair rents.

2. Where the Settlement Officer has reason to believe that area rates were fixed at the last settlement, and that rentals were determined by the application of these rates to areas of holdings, ascertained by measurement, the rates then

fixed and rentals then ascertained shall ordinarily be held to be fair for the areas at that time in the raiyats' possession.

3. In determining what area was in each raiyat's possession at the time of the last settlement, the Settlement Officer shall have regard to the inaccuracies in the survey and in classification of soils then made, and to differences in areas which are due to the difference between the methods of survey then and that now adopted, and he shall allow a reasonable percentage on the old recorded areas (not ordinarily less than 15 or more than 25), which shall be determined by the Commissioner for each village or class of villages, on the grounds above specified. The difference between the areas of holdings as shown by the present and the former measurement, after the aforesaid allowance is made, shall be presumed until the contrary is proved to be "newly cultivated."
4. "Newly cultivated lands," as defined in the last preceding rule, shall be assessed at half the rates current in the village for lands of the class to which they belong.

Settlement of rents where rents were not based on application of rates to areas of holdings ascertained by survey at the last settlement.

5. Where the rentals of holdings were not determined by the application of rates to areas ascertained by measurement at the last settlement, the Settlement Officer shall now settle fair and equitable area rates, having regard to the considerations mentioned in sections 20 and 21 of Regulation III of 1872, and shall determine the rent of every holding by the application of these rates to the area of holdings resulting from survey.

General.

6. When the productive power of the land has been increased by an improvement effected by the landlord during the currency of the present settlement, the rent may be increased on that account, and in such cases the Settlement Officer in determining the amount of the enhancement shall have regard to—
 - (i) the increase in the productive powers of the land caused, or likely to be caused, by the improvement,
 - (ii) the cost of the improvement,
 - (iii) the cost of the cultivation required for utilizing the improvement, and
 - (iv) the existing rent and the ability of the land to bear a higher rent.
7. The aggregate full rental of any village shall not exceed by more than 50 per cent. the rental fixed at the last settlement, and the increase in rental up to this maximum may, in the discretion of the Settlement Officer, be made progressive.
8. The rents now settled shall remain unchanged for 15 years.
9. An appeal shall lie from orders of the Settlement Officer under these rules to the Deputy Commissioner, and when the Deputy Commissioner's order differs from that of the Settlement Officer, an appeal shall lie from the Deputy Commissioner to the Commissioner, provided that an appeal on questions regarding rates shall lie in every case from the Deputy Commissioner to the Commissioner.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 13th December 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
1	Burdwan Dec. 13, '90	Nil	Weather—seasonable and cloudy. Harvesting of <i>amun</i> going on. Sugarcane doing well. Locusts appeared on the 7th in parts of the district and did some injury to <i>rubbi</i> crops. Prices of common rice :— Srs. Sudder 18½ Culna 17 } per rupee. Cutwa 18½ Ranigunge 16½
2	Bankura .. 13, '90	Nil	Weather—cloudy and cold. <i>Amun</i> harvest continues. <i>Til</i> is being reaped. Injury to <i>rubbi</i> crops by locusts considered as a whole is not much, but these have been completely destroyed where they alighted. Sugarcane is thriving. Common rice is selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
3	Birbhum .. 13, '90	Nil	Sky seems to threaten rain. Crops are being fast gathered in. Price of common rice ranges from 18 to 24 seers per rupee.
4	Midnapur .. 13, '90	Nil	Weather—seasonable, but a little warm at noon. Paddy crop is being harvested. <i>Rubbi</i> and indigo crops doing well. Prices of common rice :— Srs. Sudder 18 } Tumlook 16 } per rupee. Contai 18 } Ghatal 16 }
5	Hooghly .. 13, '90	Nil	Weather—cloudy and warm. <i>Amun</i> is being harvested with prospect of good outturn. <i>Rubbi</i> sowings almost completed. Locusts left the district without doing any damage. Prices of common rice :— Srs. Sudder 14 } Serampore 14 } per rupee. Jehanabad 16½ }
6	Hewrah .. 13, '90	Nil	Weather—seasonable. <i>Amun</i> crop is being reaped. Prospects of harvest good. Price of common rice about 15 seers per rupee.
<i>Central Districts.</i>			
7	24-Pergas. Dec. 16, '90	Nil	Weather—seasonable. Prospects of all crops favourable. Harvesting of <i>amun</i> in progress. Sowing of winter crops nearly finished. Prices stationary.
8	Naddea .. 13, '90	Nil	Weather—a little cloudy. Harvesting of <i>amun</i> rice nearly finished. Winter crops doing well.
9	Khoorna .. 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> going on. Prospects favourable except in flooded area.
10	Jessore .. 13, '90	Nil	Weather—cool and cloudy in the latter part of the week. <i>Amun</i> is being harvested. Sowing of winter crops still going on in places. Locusts appeared in all subdivisions and did some injury to the standing crops. Price of rice stationary.
11	Moorshedabad .. 13, '90	Nil	Weather—getting cool. <i>Amun</i> is being harvested. Prospects of <i>rubbi</i> favourable.
12	Dinajpur .. 13, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice both at Sudder and Thakurgaon 18 seers per rupee.
13	Rajshahye .. 13, '90	Nil	Weather—seasonable. Rice is being harvested with a fair outturn. Prospects of other crops good.
14	Rangpur .. 13, '90	Nil	Weather—cloudy with morning fogs. <i>Amun</i> is being cut. Mustard is in flower. Prospects generally good.
15	Bogra .. 13, '90	Nil	Weather—seasonable. State and prospects of crops good. Winter rice is being reaped, and sugarcane is being cut. Sowing of <i>rubbi</i> crops still going on. Common rice selling at 14½ seers per rupee.
16	Pubna .. 13, '90	Nil	Weather—seasonable. Prospects of crops continue satisfactory. Harvesting of <i>amun</i> still continues. Prices slightly lower.
17	Darjeeling .. 13, '90	Nil	Weather—cold and misty. Winter rice is still being harvested. Potatoes, mustard, and tobacco doing well. Prospects good.
18	Jalpore .. 13, '90	Nil	Weather—seasonable and cloudy at times. Harvesting of <i>haimanti</i> paddy in progress. Prospects of mustard and tobacco good. Common rice selling at 14 seers per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
DAGA DIVN.	19 Dacca Dec. 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> going on. Mustard, <i>mung</i> , <i>mas-kalai</i> , and <i>khesari</i> thriving. Common rice sold at from 14 to 18 seers per rupee.
	20 Furreedpur „ 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy continues. State of winter crops fair. Common rice selling at from 12 to 16 seers per rupee.
	21 Backergunge „ 13, '90	Nil	Weather—cool with foggy mornings. Prospects of crops good. Harvesting of <i>amun</i> going on. Common rice selling at from 14 to 15 seers per rupee.
CHITTAGONG DIVN.	22 Mymensingh „ 13, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy progressing; outturn expected to be 18 annas. Coarse rice sells at 16½ seers per rupee.
	23 Chittagong „ 16, '90	0·33	Weather—seasonable. Cultivation of vegetable crop and harvesting of early winter rice nearly over. State and prospects of <i>amun</i> very good. Prices unchanged.
	24 Noakhally „ 13, '90	Nil	Weather—seasonable. <i>Amun</i> crop is being harvested. <i>Rubbi</i> crops progressing. Price of rice stationary.
	25 Tipperah „ 13, '90	Nil	Weather—cold and clear. <i>Amun</i> rice is being cut. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. „ 11, '90	Nil	Weather—cold with foggy mornings throughout the week. Cloudy to-day (11th). Gathering of cotton continues. Harvesting of late rice crop going on. Mustard in flower. Tobacco, chillies, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIVN.	27 Patna „ 13, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> going on. <i>Rubbi</i> crops look flourishing. A few showers of rain will be beneficial to them. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
	28 Gya „ 13, '90	Nil	Weather—cold. Paddy harvest going on. Prospects of <i>rubbi</i> and poppy favourable. Prices of food-grains low.
	29 Shahabad „ 13, '90	Nil	Weather—cool with light west winds. Paddy still being harvested. Prospects of <i>rubbi</i> good. Prices stationary.
	30 Durbhunga „ 13, '90	Nil	Weather—cool with light west winds. Harvesting of paddy in progress; outturn in Madhubani subdivision estimated at 14 annas. Prospects of poppy and <i>rubbi</i> very favourable. Common rice selling at from 14 to 18 seers per rupee.
	31 Mozufferpur „ 13, '90	Nil	Weather—seasonable: cold. Prospects of all standing crops continue good. Harvesting of rice going on. Weather very favourable for poppy.
BHAGULPORE DIVN.	32 Saran „ 13, '90	Nil	Weather—seasonable. Harvesting of paddy in full swing. Prospects of <i>rubbi</i> and poppy continue excellent. Prices falling.
	33 Chumparun „ 13, '90	Nil	Cold has increased with west wind which prevailed in the middle of the week. <i>Rubbi</i> and poppy sowings almost over; the latter crop is being irrigated in some places. Harvesting of paddy is progressing.
	34 Monghyr „ 13, '90	Nil	Weather—seasonable; getting colder with light west wind. Harvesting of winter rice going on. Prospects of <i>rubbi</i> and poppy continue favourable.
	35 Bhagulpore „ 13, '90	Nil	Weather—seasonable. Harvesting of rice crop progressing fairly. Prospects of <i>rubbi</i> good.
	36 Purneah „ 13, '90	Nil	Weather—much colder now. <i>Aghani</i> still being harvested. <i>Rubbi</i> crops doing well.
37 Maldah „ 13, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy continues. <i>Kalai</i> is being gathered in some places. State of all other standing crops favourable. <i>Boro</i> seedlings are thriving. Prices of common rice falling owing to the new crop finding its way in the market.	
	Sonthal Perghs. „ 13, '90	Nil	Weather—cool with west wind. Harvesting of rice in full progress with good outturn. <i>Rubbi</i> promising well.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 17, 1890. 2559

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	39 Cuttack Dec. 13, '90	Nil	Weather—dry and cool. Harvesting of <i>guru sarad</i> has just commenced in the Banki subdivision. <i>Rubbii</i> doing well.
	40 Pooree „ 11, '90	Nil	Weather—hot. <i>Sarad</i> crop is being harvested. <i>Dalua</i> crop is being sown. <i>Rubbii</i> doing well. Price of common rice from 21 to 28 seers per rupee.
	41 Balasore „ 13, '90	Nil	Weather—warm for the time of year. Harvesting of winter rice drawing to a close. <i>Biri, mung</i> , and mustard promise well.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	42 Hazaribagh Dec. 13, '90	Nil	Weather—cold and occasionally cloudy. Harvesting of paddy continues; a 16-anna crop expected almost everywhere in the district. Prospects of <i>rubbii</i> and poppy crops continue favourable. Prices stationary.
	43 Lohardugga „ 13, '90	Nil	Weather—a little cloudy. Harvesting of winter rice continues. Rain still badly wanted for <i>rubbii</i> crops.
	44 Singbham „ 13, '90	0·20	Weather—warm for the season of the year. Slight rain on the 11th. Harvesting of the paddy crop continues with good turnout. Winter crops are in excellent condition. Prices stationary.
	45 Manbham „ 13, '90	Nil	Weather—seasonable, but mornings are generally cloudy. Harvesting of winter rice continues with excellent results. Prospects of <i>rubbii</i> crops good. Very slight damage done to <i>rubbii</i> crops by locusts. Coarse rice selling at from 20 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 16th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	STOCK IN HAND AS COMPILED ON—												
	1st week of Dec. 1890.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890.	1st week of Nov. 1890.	1st week of Dec. 1890.
Baliaghata	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
...	2,96,500	3,00,000	5,18,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000	5,41,000	4,10,000	3,58,500	3,14,000
Ooltadanga	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900	67,800	73,300	65,800	70,400	64,200
Chitpore, Golabazar, Coomertooly, Hatkhola, and Culipy Ghat.	5,86,000	6,00,400	5,98,900	5,83,800	5,91,800	5,37,800	4,79,200	4,96,100	5,10,500	6,07,500	6,45,100	6,29,700	5,70,250
Patnurisghatia, Posta, and Jorabagan.	8,000	8,000	5,000	4,000	8,000	4,000	3,500	4,000	3,000	4,000	5,000	4,700	5,000
Tallygunge, Chittiah, Kidderpore, and Moonshigunge.	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000	94,200	1,09,200	1,15,700	96,650
21 Minor Basars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 8,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boityabatty, Nowabgunge, Bhuddressar, and Chandernagore.	14,680	28,425	19,608	33,469	31,225	19,360	22,762	45,870	55,887	45,481	47,075	33,012	35,750
Total ...	15,13,080	15,68,975	18,43,506	22,66,369	28,77,375	23,04,669	21,85,112	19,69,379	18,65,187	18,55,481	17,67,175	17,02,012	15,75,850
On Railway premises on both sides of the river.	6,677	28,007	26,935	47,988	24,996	24,633	11,097	15,533	2,371	18,884	11,155	16,544	23,576
By Port Commissioners' returns.	(on 3rd Dec. 1889.)	(on 3rd Jan. 1890.)	(on 3rd Feb. 1890.)	(on 3rd Mar. 1890.)	(Ap. 1890.)	(on 3rd May 1890.)	(on 3rd June 1890.)	(on 3rd July 1890.)	(on 3rd August 1890.)	(on 3rd Sept. 1890.)	(on 3rd October 1890.)	(on 3rd Nov. 1890.)	(on 3rd Dec. 1890.)
On boats unloaded ...	20,650	61,641	68,796	56,599	37,745	30,197	24,756	23,351	54,778	27,167	32,395	25,445	34,878
By Canal returns.	(1st to 3rd Dec. 1889.)	(2nd to 4th Jan. 1890.)	(1st to 3rd Feb. 1890.)	(1st to 3rd Mar. 1890.)	(Ap. 1890.)	(1st to 3rd May 1890.)	(1st to 3rd June 1890.)	(1st to 3rd July 1890.)	(1st to 3rd August 1890.)	(1st to 3rd Sept. 1890.)	(1st to 3rd October 1890.)	(1st to 3rd Nov. 1890.)	(1st to 3rd Dec. 1890.)
Grand total of Stocks ...	15,49,242	17,90,438	21,81,281	25,05,503	20,98,735	24,43,474	22,45,752	20,30,851	19,40,882	19,28,902	18,34,189	17,74,009	16,60,245
Probable stock available for exportation by sea.	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	7½ lakhs	6 lakhs

STATISTICAL DEPARTMENT,
The 13th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
7th to 13th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fair.	TEMPERATURE.				HYGROMETRY.				WIND.			Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.			
Dec.	7th	○	Inches.	○	○	○	○	○	Inches	○	%				Inches.		
"	8th	132.8	9.0	.987	68.8	80.8	22.5	58.3	63.7	.524	60.2	76	W and calm	..	..	Chiefly clear, 
"	9th	133.9	9.3	.972	69.9	81.2	22.3	58.9	65.4	.570	62.6	79	Calm and variable	..	..	Chiefly clear, 
"	10th	143.4	8.7	.927	73.2	83.5	18.6	64.9	69.4	.669	67.3	83	SW, calm and variable.	..	..	Chiefly clear, 
"	11th	131.0	9.0	.920	73.1	80.8	14.5	66.3	67.8	.613	64.7	77	NNE, calm and variable.	..	..	Partially cloudy, 
"	12th	131.1	8.9	.974	70.0	78.2	15.9	62.3	63.4	.498	58.8	69	ENE and calm	..	..	Chiefly clear, 
"	13th	133.2	7.0	.945	66.7	78.5	19.8	58.7	63.1	.531	60.6	81	Calm and variable	..	0.03	Partially cloudy, 	

The mean pressure of the seven days 29.956

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.024

The total number of hours of bright sunshine 61.1

The maximum possible number of hours of sunshine 75.2

The mean temperature of the seven days 70.0

The average temperature of the corresponding period for 24 years, S.-G.'s Office 68.4

The extreme variation of temperature 25.7

The maximum temperature 83.5

The highest velocity of the wind in one hour 7

The highest pressure of wind on one square foot ?

The mean relative humidity 77

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 71

The total fall of rain from 7th to 13th December 1890 0.03

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.03

The total fall from 1st January to 13th December 1890 61.28

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ, dew; Μ, fog; o, overcast; d, drizzling rain.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 15th December 1890.

Meteorological Report of the Province of Bengal

Mete. R. O. D. I. V. I.		D. I. S. T.	R. S. P. A. S. T.	S. T. A. N. O. R. A. T. I. O. N. S.															
				A. I. R. P. R. E. S. S. U. R. E.			W. I. N. D.			T. E. M. P. U. R. A. T. U. R. E.									
				M. e. a. n. b. a. r. o. m. e. t. r. i. c. h. e. i. g. h. t., 8 A. M.	M. e. a. n. r. e. d. u. c. t. e. d. t. o. s. e. l. e. v. e. l.	V. a. r. i. a. t. i. o. n. f. r. o. m. m. e. a. n.	P. r. e. v. a. l. i. n. g. d. i. r. e. c. t. i. o. n.	M. e. a. n. w. i. n. d. v. e. l. o. c. i. t. y.	H. i. g. h. e. s. t. d. u. r. i. n. g. w. e. k.	D. a. t. e.	L. o. w. e. s. t. d. u. r. i. n. g. w. e. k.	T. i. n. t. e.	M. e. a. n. m. a. x. i. m. u. m. t. e. m. p. e. r. a. t. u. r. e.	M. e. a. n. m. i. n. i. m. u. m. t. e. m. p. e. r. a. t. u. r. e. o. f. w. e. k.	M. e. a. n. d. a. y. t. e. m. p. e. r. a. t. u. r. e. o. f. w. e. k.	V. a. r. i. a. t. i. o. n. f. r. o. m. n. o. r. m. a. l. m. e. a. n. o. f. w. e. k.	M. e. a. n. s. t. a. n. d. a. r. y. t. e. m. p. e. r. a. t. u. r. e., 8 A. M.		
CHOTIA. NAGPUR.	N. B. H.	E. B. H.	S. W. B. H.	Pooree Gopalpore	30°010 30°012	30°023 30°034	— —'009	N NNW	195 216	84°7 85°2	12th Dec. 10th ..	65°6 65°4	6 & 7 Dec. 7th ..	83°0 81°0	68°7 68°0	75°9 75°5	+1° +4°6	71° 72°	
POOREE.	O. I. S. S.	CUTTACK.	South-West Midnapore	False Point	30°007	30°029	—'031	NNW	151	84°9	12th ..	58°5	6th ..	83°2	63°0	73°1	+3°5	70°2	
BALASORE.	South 24-Pergunnahs	BALASORE.	Midnapore	Outtack	29°939	30°043	—'015	Calm	20	80°4	10th ..	60°8	6th ..	73°8	64°4	75°6	+5°3	70°4	
South 24-Pergunnahs	JESSORE.	JESSORE.	Chittagong	Balasore	29°983	30°044	—'022	South-Westerly.	47	87°4	11th ..	58°6	6 & 7 ..	62°1	73°3	+7°0	68°0		
Midnapore	Chittagong	CHITTAGONG.	Chittagong	Saugor Island	30°005	30°032	—'025	Westerly.	209	81°2	12th ..	61°9	6th ..	66°7	72°2	+4°2	71°4		
24-Pergunnahs	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Midnapore	29°875	30°033	—'038	N	75	88°3	11th ..	56°2	6th ..	73°2	+5°8	65°7			
Howrah	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Calcutta	30°005	30°028	—'033	Calm	24	83°5	11th ..	56°8	6th ..	70°7	+3°0	67°0			
Hinohly	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Burdwan	29°942	30°047	—'025	Variable	26	85°1	11th ..	57°4	7th ..	60°5	71°4	+3°4	65°7		
Burdwan	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Burkpoora	29°702	30°021	—'040	W & Calm	49	86°6	11th ..	58°2	8th ..	69°4	71°9	+4°7	64°5		
Bankoora	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Beerhoom	29°700	30°050	—'028	NW & WNW	31	83°3	11th ..	57°3	6th ..	59°3	70°2	+3°7	64°7		
West Burdwan	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Moorshedabad	29°937	30°027	—'039	W, WSW	33	82°1	11th ..	56°2	7th ..	59°2	68°8	+1°7	63°4		
Nuddes	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Berhampore	29°978	30°029	—'025	Variable	58	85°0	11th ..	53°0	6th ..	55°7	69°0	+2°1	65°4		
Jessore	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Krishnaghur.	29°974	30°029	—'022	Calm	6	84°2	11th ..	56°5	6th ..	81°4	60°1	70°8	+2°3	66°4	
Khoolna	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Chittagong	29°947	30°041	+005	Westerly.	43	81°2	11th ..	55°9	6th ..	78°6	62°1	70°4	+1°1	64°1	
Chittagong	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Demagiri	—	—	—	Observations not received.											
Backergunge	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Barrisal	30°010	30°028	—'002	Calm	33	81°8	11th Dec.	57°1	6th ..	79°9	60°6	70°3	+2°8	67°3	
Noakholly	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Noakholly	29°880*	30°034*	+007*	Variable	126*	82°0	12th ..	55°5	6 & 7 ..	59°0	63°9	+2°3	63°3		
Furreedpore	Chittagong Hill Tracts	CHITTAGONG HILL.	Chittagong	Furreedpore	29°995	30°037	—'001	Calm	23	82°0	11th ..	57°8	6th ..	59°6	67°5	+1°2	63°5		
Dacca	North B. H.	EAST BENGAL.	North B. H.	Dacca	29°993	30°017	—'020	Variable	54	81°1	11th ..	58°3	7 & 12 ..	79°3	60°4	61°9	+0°3	63°7	
Commillah	North B. H.	EAST BENGAL.	North B. H.	Commillah	29°999	30°036	+001?	E	20	81°4	10th ..	55°0	6th ..	79°4	58°0	68°7	+1°7	66°6	
Mymensingh	North B. H.	EAST BENGAL.	North B. H.	Mymensingh	29°971	30°032	—'005	ENE	49	79°5	11th ..	54°1	12th ..	76°5	58°1	67°3	+1°5	63°3	
Bogra	North B. H.	EAST BENGAL.	North B. H.	Bogra	29°931	30°098	—'020	NE	33	79°3	11th ..	51°5	12th ..	77°4	56°0	60°7	+0°3	60°2	
Pubna	North B. H.	EAST BENGAL.	North B. H.	Serajgunge	29°967	30°016	—'026	South-Westerly.	17	81°0	11th ..	53°6	19th ..	78°7	56°4	67°6	+1°6	63°9	
Rajshahye	North B. H.	EAST BENGAL.	North B. H.	Rampore Beau-leah.	29°945	30°018	—'023	Variable	21	79°4	11th ..	53°7	12th ..	77°7	57°8	67°8	+2°9	64°1	
Maldah	North B. H.	EAST BENGAL.	North B. H.	Maldah	29°950	30°036	—	SW	75	80°0	11th ..	50°2	12th ..	78°5	55°5	67°0	—	63°1	
Dinagepore	North B. H.	EAST BENGAL.	North B. H.	Dinagepore	29°901*	30°028*	—'040*	Variable	?	79°1	11th ..	49°7	12th ..	77°2	55°2	66°2	+1°4	61°3	
Rungpore	North B. H.	EAST BENGAL.	North B. H.	Rungpore	29°908	30°040	—'033	E	22	78°6	11th ..	49°8	12th ..	76°9	55°7	66°3	+1°5	60°3	
Julpigoree	North B. H.	EAST BENGAL.	North B. H.	Julpigoree	29°721	30°024	—'046	?	46	76°4	9 & 11 ..	53°1	11 & 12 ..	75°3	55°8	65°6	+0°8	61°3	
Darjeeling	North B. H.	EAST BENGAL.	North B. H.	Darjeeling	22°965	—	—'066	Calm	93	50°1	11th ..	35°8	11th ..	47°2	37°1	42°2	-2°5	40°7	
Purneah	North B. H.	EAST BENGAL.	North B. H.	Purneah	29°893	30°029	—'041	Calm	52	78°7	11th ..	49°0	12th ..	75°9	54°0	64°9	+0°5	52°4	
Mozufferpore	North B. H.	EAST BENGAL.	North B. H.	Mozufferpore	29°839	30°021	—	WSW	72	78°4	10 & 11 ..	54°3	7th ..	76°7	55°6*	66°4*	—	53°3	
Durbhunga	North B. H.	EAST BENGAL.	North B. H.	Durbhunga	29°858	30°035	—'055	WSW	68	78°9	11th ..	51°9	12th ..	76°8	56°3	66°6	+0°9	62°5	
Chumparon	North B. H.	EAST BENGAL.	North B. H.	Motihari	29°799	30°039	—'030	Variable	132	78°2	10th ..	46°9	12th ..	76°8	51°8	64°4	+1°9	61°3	
saron	North B. H.	EAST BENGAL.	North B. H.	Chupra	29°817	30°022	—'040	Calm	60	80°2	11th ..	51°0	12th ..	77°6	56°2	67°0	+4°4	60°3	
Dehree	North B. H.	EAST BENGAL.	North B. H.	Dehree	—	—	—	—	82°3	9, 10, 11 ..	55°0	12th ..	81°0	57°0	69°5	+0°1	63°2		
Shahabad	North B. H.	EAST BENGAL.	North B. H.	Buxar Arrah	29°820	30°022	—'039	S-Wly.	92	80°9	10th ..	50°9	12th ..	78°5	56°8	67°7	+4°2	62°3	
Gya	North B. H.	EAST BENGAL.	North B. H.	Gya	29°654	30°054	—'044	S	110	82°4	10th ..	53°8	12th ..	80°6	58°0	69°3	+5°5	63°2	
Patna	North B. H.	EAST BENGAL.	North B. H.	Bankipore	29°847	30°041	—'059	Variable	67	79°7	11th ..	50°4	12th ..	77°4	56°3	66°9	+2°8	63°2	
South Bhagulpore	North B. H.	EAST BENGAL.	North B. H.	Bhagulpore	29°808*	30°030*	—'034*	Calm	22	81°1	11th ..	53°0	12th ..	78°1	56°5	67°3	+2°0	62°2	
Sonthal Pergunnah	North B. H.	EAST BENGAL.	North B. H.	Doomka	29°515	30°042	—'029	Calm	35	81°6	11th ..	54°1	7th ..	79°9	53°1	68°1	+4°2	61°3	
Hazaribagh	North B. H.	EAST BENGAL.	North B. H.	Hazaribagh	27°974	30°056	—'034	WNW	205	79°3	9 & 10 ..	52°5	12th ..	77°2	56°4	66°8	+5°2	62°7	

For the week ending Friday, the 12th of December 1890.

No.	Date at 8 A.M.	Binaries	Average cloud amount at 8 A.M. for week,	Rainfall of week at observing station.	DISTRICT OBSERVATIONS.								Representative station.	DISTRICT.	MeteoroLOGICAL DIVISION.	
					RAINFALL.											
					Since 1st of Month.			Since 15th May 1890.			Normal mean.	Variation.	Normal mean.	Variation.	Normal mean.	Variation.
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
37	0'4	Nil	Nil	0'45	Nil	0'60	-0'60	65'77	55'30	+10'47	0'0	0'4	Pooree Gopalpore	... Pooree	... Pooree	... Oriissa.
70	0'6	Nil	Nil	0'45	Nil	0'60	-0'60	65'77	55'30	+10'47	0'0	0'4	False Point	...	...	...
89	1'6	Nil	Nil	0'45	Nil	0'38	-0'33	63'64	51'35	+12'29	0'0	0'3	Cuttack	...	Cuttack	...
74	1'3	0'04	Nil	0'27	Nil	0'38	-0'33	63'64	51'35	+12'29	0'0	0'3	Balasore	...	Balasore	...
35	0	Nil	0'12	0'12	0'12	0'19	-0'07	61'38	52'83	+8'55	0'5	0'2	Santor Island	...	South-West Midnapore	...
22	2'6	0'07	0'02	0'13	0'02	0'28	-0'26	66'31	61'89	+4'42	0'3	0'2	Santor Island	...	South 24-Pergunnahs	...
76	2'0	Nil	Nil	0'07	Nil	0'17	-0'17	50'00	50'99	-0'93	0'0	0'1	Midnapore	...	Midnapore	...
66	0'9	Nil	Nil	0'09	Nil	0'23	-0'22	55'16	51'09	+4'07	0'0	0'1	Calcutta	...	24-Pergunnahs	...
63	1'6	Nil	Nil	0'04	Nil	0'13	-0'13	61'41	46'26	+15'15	0'0	0'1	Burdwan	...	Howrah	...
75	2'7	Nil	Nil	0'01	Nil	0'14	-0'14	52'02	52'07	-0'05	0'0	0'1	Bankoora	...	Hooghly	...
76	0'7	Nil	Nil	0'03	Nil	0'10	-0'10	63'93	51'71	+12'22	0'0	0'1	Ranagunge	...	Bankoora	...
37	2'7	Nil	Nil	0'05	Nil	0'11	-0'11	60'55	50'01	+10'54	0'0	0'1	Barhampore	...	Berhampore	...
81	2'0	Nil	Nil	0'01	Nil	0'09	-0'09	55'03	48'72	+6'31	0'0	0'1	Krishnaghur	...	Moorshedabad	...
88	1'7	Nil	Nil	0'04	Nil	0'23	-0'22	53'51	52'23	+1'31	0'0	0'1	Jessore	...	Nuddea	...
47	1'4	0'38	0'39	0'24	0'39	0'47	-0'98	119'45	113'95	+6'49	1'0	0'2	Chittagong	...	Jessore	...
				0'02	0'30	0'02	0'46	73'34	80'26	-6'92	0'5	0'3			Chittagong	...
50	0	Nil	0'14	0'12	0'14	0'37	-0'23	68'30	76'15	-7'85	0'3	0'2	Barrisal	...	Damagiri	...
90	0'0	0'02	Nil	0'42	Nil	0'77	-0'77	97'83	106'48	-8'60	0'0	0'3	Noakholly	...	Noakholly	...
91	1'0	Nil	Nil	0'02	Nil	0'10	-0'10	45'42	54'97	-9'55	0'0	0'1	Furreedpore	...	Furreedpore	...
45	5'9	Nil	Nil	0'08	Nil	0'20	-0'20	58'19	60'04	-1'85	0'0	0'1	Dacca	...	Dacca	...
86	2'0	Nil	0'08	0'15	0'08	0'34	-0'26	60'19	68'02	-7'83	0'3	0'2	Tipperah	...	Tipperah	...
93	0'7	Nil	Nil	0'06	Nil	0'12	-0'12	75'85	68'52	+7'33	0'0	0'1	Mymensingh	...	Mymensingh	...
91	0	Nil	Nil	0'04	Nil	0'13	-0'12	78'90	67'02	+9'17	0'0	0'1	Bogra	...	Bogra	...
95	0'7	Nil	Nil	0'03	Nil	0'09	-0'09	54'95	52'89	+2'06	0'0	0'1	Serajunge	...	Pubna	...
85	0'9	Nil	Nil	0'03	Nil	0'11	-0'11	75'86	52'92	+22'94	0'0	0'1	Rampore Beausieh	...	Rajshahye	...
86	0	Nil	Nil	0'01	Nil	0'07	-0'07	62'14	53'66	+5'48	0'0	0'1	Maldah	...	Maldah	...
89	0'1	Nil	Nil	0'04	Nil	0'13	-0'13	81'74	56'38	+23'35	0'0	0'1	Dinagepore	...	Dinagepore	...
92	0'0	Nil	Nil	0'07	Nil	0'09	-0'09	103'61	73'27	+33'34	0'0	0'2	Rungpore	...	Rungpore	...
94	0	Nil	Nil	0'08	Nil	0'08	-0'08	154'51	109'68	+44'83	0'0	0'2	Julipigoree	...	Julipigoree	...
94	7'0	Nil	0'65	0'04	0'09	0'05	+0'04	165'75	119'93	+45'82	0'7	0'2	Darjeeling	...	Chooch Behar	...
															Darjeeling Hill Tracts	...
93	0'3	Nil	Nil	0'06	Nil	0'06	-0'06	89'67	58'11	+22'55	0'0	0'1	Purneah	...	Purneah	...
93	0'3	Nil	Nil	0'03	Nil	0'3	-0'03	52'57	42'79	+9'78	0'0	0'1	Nora-Bhagulpore	...	Nora-Bhagulpore	...
86	0	Nil	Nil	0'05	Nil	0'63	-0'03	57'63	43'99	+13'64	0'0	0'1	Durbhunga	...	Mosuferpore	...
86	0	Nil	Nil	0'08	Nil	0'09	-0'09	68'47	45'98	+22'49	0'0	0'1	Chumparan	...	Durbhunga	...
90	6'1	Nil	Nil	0'05	Nil	0'05	-0'05	53'60	41'91	+11'69	0'0	0'1	Saran	...	Motihari	...
69	2'1	Nil	Nil	0'08	Nil	0'08	-0'08	154'51	109'68	+44'83	0'0	0'2	Dhshire	...	Gya	...
78	1'1	Nil	Nil	0'12	Nil	0'13	-0'13	49'59	39'44	+10'15	0'0	0'2	Shahabad	...	Gya	...
84	1'0	Nil	Nil	0'12	Nil	0'13	-0'13	49'59	39'44	+10'15	0'0	0'2	Buxar Arrah	...	Patna	...
71	2'3	Nil	Nil	0'03	Nil	0'03	-0'03	56'93	40'84	+16'09	0'0	0'1	Bankipore	...	Bankipore	...
79	0	Nil	Nil	0'03	Nil	0'03	-0'03	48'10	40'64	+7'46	0'0	0'1	South Bhagulpore	...	South Bhagulpore	...
81	1'4	Nil	Nil	0'01	Nil	0'02	-0'02	52'23	42'56	+9'69	0'0	0'1	Monghyr	...	Monghyr	...
76	0	Nil	Nil	0'01	Nil	0'06	-0'06	63'65	59'33	+13'33	0'0	0'1	Doomka	...	Sonthal Pergunnahs	...
67	1'3	Nil	Nil	0'01	Nil	0'03	-0'03	49'45	49'3	+0'22	0'0	0'1	Hazaribagh	...	Lohardaga	...
70	4'0	Nil	Nil	0'03	Nil	0'04	-0'04	47'61	47'45	-0'44	0'0	0'1	Ranchi	...	Manbhum	...
72	2'6	0'20	0'20	0'10	0'20	0'19	+0'01	34'14	59'66	-16'52	1'0	0'2	Ghimbassa	...	Chutia Naspur.	...

Ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means for each district are given, the mean being the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1890.	Avg rain from May dat
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Number of rainy days.	Rainfall of week.				
ORISSA	Pooree	Pooree	...	...	...	...	...	...	...	Nil	Nil	Nil	0'64	69'97	56
		Khurdah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'33	65'16	55
		Banpur	...	...	...	...	...	...	...	Nil	Nil	Nil	0'63	61'83	49
		False Point	...	...	...	...	...	...	...	Nil	Nil	Nil	0'73	66'10	64
		Gop	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65'96	
		Satpara	...	...	...	...	...	...	...	Nil	Nil	Nil	?	45'07	
		Pipli	...	...	...	...	...	...	...	Nil	Nil	Nil	?	75'00	
Orissa	Cuttack	Jagatsingapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'33	63'67	46
		Banki	...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	66'09	48
		Cuttack	...	...	...	...	...	...	...	Nil	Nil	Nil	0'23	52'14	55
		Kendrapara	...	...	...	...	...	...	...	Nil	Nil	Nil	0'44	58'15	52
		Jajpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'62	63'15	52
		Dharmasala	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53'18	
		Salipore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52'15	
Balasore	Balasore	Chandbali	...	...	...	...	...	...	0'38	Nil	Nil	Nil	0'49	52'06	55
		Bhuddruck	...	...	...	...	...	...	...	0'38	1	0'38	0'19	53'23	51
		Sorah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	60'84	50
		Balasore	...	...	...	...	...	...	...	0'30	1	0'30	0'32	63'13	57
		Jellasore	...	...	...	...	...	...	...	0'05	1	0'05	0'03	66'13	51
		Baripodah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	62'96	55
		Midnapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'33	67'73	60
SOUTH-WEST BENGAL	Midnapore	Contai	...	...	...	...	...	...	0'07	...	1	0'97	0'07	69'12	66
		Saugor Island	...	...	...	...	...	...	...	Nil	Nil	Nil	0'23	57'90	50
		Tumlooh	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	47'47	48
		Midnapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'18	44'61	53
		Ghatal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	50'29	1
		Kukrahatty	...	...	...	...	...	...	...	Nil	Nil	Nil	?	46'23	1
		Garbeta	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
24-Pargunnals	Diamond Harbour	Diamond Harbour	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	62'13	57
		Canning Town	...	...	...	...	...	...	...	Nil	Nil	Nil	?	66'69	
		Alipore Jail	...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	61'96	54
		Barrackpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'24	59'91	48
		Dum-Dum	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	56'34	51
		Barasat	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	54'84	49
		Buserhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0'21	58'67	54
Howrah	Howrah	Howrah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'25	51'34	50
		Mohesreka (Oolaberiah)	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	59'57	53
		Hooghly	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	54'30	49
		Serampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	52'05	47
		Hooghly	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	51'57	54
		Jehannabad	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
		Burdwan	...	...	...	...	...	...	...	Nil	Nil	Nil	0'18	54'31	43
Bankura	Bankura	Culna	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	65'53	48
		Burdwan	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	64'35	47
		Cutwa	...	...	...	...	...	...	...	Nil	Nil	Nil	10'05	60'54	47
		Raneeungunge	...	...	...	...	...	...	...	Nil	Nil	Nil	0'06	48'21	1
		Monkur	...	...	...	...	...	...	...	Nil	Nil	Nil	?		
		Bankoora	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	57'76	51
		Bishenpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	56'95	51
Bankura	Bankura	Malira	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	59'28	48
		Khatra	...	...	...	...	...	...	...	Nil	Nil	Nil	0'23	40'06	56
		Indas	...	...	...	...	...	...	...	Nil	Nil	Nil	?	59'97	1
		Kotalpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	66'94	1
		Anda	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65'11	1
		Gangajalghati	...	...	...	...	...	...	...	Nil	Nil	Nil	?	63'75	1
		Raijore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	53'29	1
Birbhum	Birbhum	Sonamukhi	...	...	...	...	...	...	...	Nil	Nil	Nil	?	52'74	1
		Bh. Soory	...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	62'28	53
		Hetampore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	60'31	52
		Rampore Hau	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	72'56	59
		Bodpore	...	...	...	...	...	...	...	Nil	Nil	Nil	?	57'42	1
		Murarai	...	...	...	...	...	...	...	Nil	Nil	Nil	?	56'46	1
		Nuddea	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	55'46	46
Jessore	Jessore	Ranaghata	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	61'66	45
		Kishnaghata	...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	59'08	45
		Choondanga	...	...	...	...	...	...	...	Nil	Nil	Nil	0'09	47'08	45
		Maherpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	58'86	47
		Kooshtea	...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	62'09	52
		Satkira	...	...	...	...	...	...	...	Nil	Nil	Nil	0'33	57'61	57
		Bagirhat	...	...	...	...	...	...	...	Nil	Nil	Nil	0'26	62'51	57
Moorshedabad	Moorshedabad	Khooina	...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	52'88	54
		Nakipur	...	...	...	...	...	...	...	Nil	Nil	Nil	?	76'02	1
		Rampal	...	...	...	...	...	...	...	Nil	Nil	Nil	?	65'78	1
		Narsil	...	...	...	...	...	...	...	* Nil	Nil	Nil	0'19	51'45	45
		Jessore	...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	59'49	53
		Jhenidah	...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	54'16	45
		Magoorah	...	...	...	...	...			

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL	Number of rainy days.	Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.						
EAST BENGAL —concl.	Gourauddi Bauphal	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	42.66	?
	Noakholly	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	73.26	?
	Penny	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.58	92.34	107.14
	Harishpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.95	163.40	105.70
	Ramganj	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	169.51	?
	Furreedpore	Madaripore	....	....	....	....	....	....	....	Nil	Nil	Nil	9.14	41.91	55.15
		Furreedpore	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	40.43	57.37
		Goalundo	....	....	....	....	....	....	....	Nil	Nil	Nil	0.08	44.39	52.49
Dacca	Munshigunge	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.28	57.78	60.84
	Dacca	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.15	54.58	68.15
	Naraingunge	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.26	40.71	61.40
	Manickgunge	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	59.71	40.50
	Joydebpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	66.26	?
Hill Tipperah	Agartala	....	....	....	....	....	....	....	....	....	....	....	0.36	81.00	
	Comilla	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.45	67.24	75.37
	Ghadrpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.34	56.78	74.62
	Brahmanbaria	....	....	....	....	....	....	....	....	1	0.30	0.30	0.22	54.94	61.17
	Ramchandrapore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	76.11	?
	Nasirnagar	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	34.91	?
	Daudkandi	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	30.44	?
	Kasba	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	51.71	?
	Laksham	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	68.55	?
Mymensingh	Kishoregunge	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	68.87	69.27
	Atia (Tangail)	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.08	56.63	54.94
	Mymensingh	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	78.05	73.50
	Jamalpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.17	79.16	64.66
	Netrokona	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.17	96.54	80.53
	Subornakhali	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	58.25	?
	Durganpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	118.07	?
	Sherepore Town	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	97.41	?
	Dewanganj	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	72.90	?
NORTH BENGAL	Pubns	Purnna	....	....	....	....	....	....	....	Nil	Nil	Nil	0.09	46.08	53.45
	Serajgunge	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.08	63.81	52.27
	Bogra	Sherepore	....	....	....	....	....	....	....	Nil	Nil	Nil	0.14	77.86	57.91
		Nowkhilla	....	....	....	....	....	....	....	Nil	Nil	Nil	0.11	66.79	53.87
		Bogra	....	....	....	....	....	....	....	Nil	Nil	Nil	0.07	79.92	60.51
		Panchbibi	....	....	....	....	....	....	....	Nil	Nil	Nil	0.16	91.46	56.41
Rajshahi	Beuliah	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.09	72.29	52.49
	Nattore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	88.84	54.29
	Naogaon	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.14	66.15	52.13
	Laipore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	52.38	?
	Manda	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	48.04	?
Maldah	Maldah	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.12	64.65	51.11
	Chanchal	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.08	59.62	56.15
	Gajol	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	84.40	?
	Sibganj	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	62.66	?
Binagore	Mohadebpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.18	67.94	56.08
	Churammon	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.12	80.28	52.19
	Raigunje	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.12	92.75	67.70
	Dinapore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.06	86.90	63.59
	Balorhat	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.23	81.01	52.24
	Thakoorgaon	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	107.04	?
Rungpore	Bawaniogunek (Gyabanda)	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.10	123.00	62.19
	Rungpore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.06	96.50	74.12
	Kurigram	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.04	95.59	72.70
	Bagdogra	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.16	111.28	84.03
	(Nilphamari)	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	97.52	?
	Ulipore	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	115.70	?
Jalpigoree	Jalpigoree	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.06	156.26	116.79
	Alipore Dooar	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	187.47	?
	Fallacotta	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	140.30	?
	Debiganj	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	115.70	?
Cooch Behar	(Nayrakatta)	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	182.64	?
	Dinhata	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.06	128.25	94.53
	Cooch Behar	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.07	169.37	118.06
	Mickilgunje	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.14	146.35	103.06
	Matabangna	....	0.01	0.01	0.19	....	....	....	....	3	0.21	0.29	0.05	211.15	181.27
Darjeeling Hill.	Buza	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.02	178.39	102.33
	Silliguri	....	....	....	....	....	....	....	....	Nil	Nil	Nil	0.11	150.24	107.39
	Darjeeling	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	123.00	77.29
	Kalimpong	....	0.15	0.16	....	....	....	....	....	2	0.31	0.31	?	193.09	?
	Kurseong	....	....	....	....	....	....	....	....	Nil	Nil	Nil	?	193.09	?
NORTH BENGAL	Purnash	Kissegunge	....	....	....	....	....	....	....	Nil	Nil	Nil	0.05	195.38	69.76
		Arrareen	....	....	....	....	....	....	....	Nil	Nil	Nil	0.05	83.78	63.21

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL		Average rainfall from 15th May to date.			
			Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Number of rainy days.	Rainfall of week.	Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.
NORTH BHARAT —concluded.	Champaran.	Mothnari .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	72'96	44'97
		Bettiah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'11	64'89	47'93
		Bagaha .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Burhurwas .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58'36	?
SOUTH BHARAT	Sarun.	Gopalgunge .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	52'67	42'51
		Sewan .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'04	59'84	43'14
		Chuprah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	48'27	49'04
		Buxar .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	52'47	41'63
Gaya	Shahabad.	Dehree .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'28	43'14	39'58
		Bhaboosh .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'10	41'11	40'48
		Sasserau .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'14	44'19	40'06
		Arrah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	66'96	39'33
Patna	Gya.	Mohaniah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36'07	?
		Aurungabad .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	59'49	41'97
		Gya .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'01	60'04	41'84
		Nowadah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'01	54'84	39'18
Monghyr	Patna.	Jehanabad .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	65'35	40'26
		Arwai .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55'43	?
		Daudnagar .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29'85	?
		Sherrghati .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36'81	?
South Bhagal- pore	Monghyr.	Rajauli .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45'60	?
		PakriBarawan .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54'24	?
		Begoo-serai .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'04	50'02	41'29
		Monohyr .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'04	52'13	40'84
Sonthal Per- gunnahi.	South Bhagal- pore.	Jamui .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'02	40'93	41'20
		Gogri .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43'25	39'20
		Sheikpura .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47'76	?
		Bhagalpore .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'01	44'29	30'55
CHUTTA NAG- PUR.	Hazaribagh.	Backa .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54'84	45'92
		Kelang .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'01	60'22	42'53
		Bongao .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76'44	?
		Rajmehal .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47'76	?
Lohardugga	Singbhoom.	Goddas .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'04	56'86	51'84
		Pakour .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'07	50'75	45'25
		Nya Doomka .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	74'16	54'98
		Deschur .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'09	74'22	54'61
Manbhoom	Lohardugga.	Jamitura .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'02	49'43	40'53
		Mohasama .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'08	76'43	47'73
		Nanihat .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48'81	?
		Pachamba (Giridit).	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52'28	?
Singbhoom	Manbhoom.	Hazaribagh .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	55'35	46'85
		Samtaurah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	49'97	40'17
		Mahudi Hills .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'03	38'94	45'46
		Jhoorma Hills .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'04	43'02	48'18
Singbhoom	Singbhoom.	Barhi .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56'80	59'60
		Chatra .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'24	?
		Karadgsha .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47'08	?
		Ramghar .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57'34	?
Manbhoom	Singbhoom.	Lohardugga .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'01	53'19	49'38
		Ranchi .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'09	43'57	51'28
		Palamow .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'02	44'27	42'31
		Silli .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43'85	?
Manbhoom	Manbhoom.	Balamat .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43'62	?
		Hosseinabad .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41'75	?
		Garsah .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38'30	?
		Chyebassa .....	.....	.....	.....	.....	0'20	.....	1	0'20	0'20	0'19	34'14	50'81
Manbhoom	Manbhoom.	Chakradhar- pore.	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24'83	?
		Ghatsilla .....	.....	.....	.....	.....	1'12	.....	Nil	Nil	Nil	?	51'44	?
		Bakaragura .....	.....	.....	.....	.....	1'12	.....	1	1'12	1'12	?	52'05	?
		Purulia .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'11	44'23	48'41
Manbhoom	Manbhoom.	Gobindpore .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'10	38'84	44'41
		Raghunath- pore.	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62'26	?
		Barabhacon .....	.....	.....	.....	.....	0'07	.....	1	0'07	0'07	?	44'22	?
		Jhalda .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64'71	?
Manbhoom	Manbhoom.	Chas .....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'18	?

Explanation.—....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 16th December 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 12TH
OF DECEMBER 1890.**

THE week commenced with conditions which were a little abnormal for the period; pressure was rather considerably in defect of the normal, particularly in North Bengal and Behar, where in some cases the defect almost equalled a tenth of an inch. Temperature was at the western and southern stations rather largely in excess, stations like Chupra and Dehree showing an excess in the mean temperature of nearly 7°. Winds were also much more strongly westerly than usual, and at some stations even south-westerly winds were reported. On the 7th pressure had risen generally, the rise being largest in Behar and North Bengal, while it was comparatively small in South and South-West Bengal. This was succeeded by a slight rise on the 8th which was fairly equal in all districts, while on the 9th a similar slight fall was recorded. On the 10th, however, another fall of pressure was recorded, which was largest in North Behar and North Bengal, and which over the whole of Bengal was moderately large except at the stations in the extreme south-east of the province and in the south of Orissa. Indeed, on this date a distinct area of low pressure was lying over Behar, part of North Bengal, and the western parts of Central and South-West Bengal. The winds blowing over Bengal showed distinctly the effect of this low-pressure area, and at the head of the Bay and at many of the inland stations also southerly winds set in, bringing up moderate amounts of moisture from the Bay. Temperature had also generally increased steadily, and in some cases rather rapidly, on the 7th, 8th, 9th, and 10th, the rise in the mean temperature on the latter date averaging about 2°, so that by the 10th temperature had become particularly high for the season. Indeed, at the western stations on this date the mean temperature was in excess of the normal by from 5° at Calcutta to about 11° at Ranchee and Chybassa, though at the eastern stations the excess temperatures were comparatively small. It will thus be seen on the 10th conditions were distinctly abnormal, and indeed rather disturbed. These disturbed conditions gave a few scattered local showers which were reported on the morning of the 11th from a few stations in South-West Bengal, East Bengal, and Chutia Nagpur, but the amounts were of little importance. On the 11th pressure had continued to fall at most stations, the fall being largest in North Bengal, and the area of low-pressure over this district on this day was very distinctly marked, and this was accompanied by a marked tendency for southerly winds at many stations. The excessive temperature also continued, and even increased at some stations, and it had also spread to a greater extent over the province than it had on the previous day; and at Calcutta, for instance, the mean temperature was 7·2° in excess of the normal, so that the disturbed conditions continued on the 11th. On the 12th, however, a very rapid rise of pressure had taken place, the rise at many stations considerably exceeding a tenth of an inch. Winds on this day became more northerly than they had been, and therefore more normal; and finally, temperature fell generally by amounts varying from 3° to 6°. Thus on the last day of the week conditions were rather rapidly reverting to their normal condition.

Pressure.—The general changes of pressure throughout the week have been already described. The mean pressure for the seven days has, however, not been very far removed from the normal, and at most stations pressure has been in defect by amounts ranging up to a twentieth of an inch, the defects being naturally largest at the northern stations.

Temperature—Has been largely in excess, and for the whole province the mean excess has been between three and four degrees; the largest excess has been in Orissa and Chutia Nagpur, where it has equalled between five and six degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. The variations, it will be seen, have been rather excessive both in the day and night temperatures.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 12th of December 1890.

	Normal mean maximum temperature for the week ending 12th December.	Actual mean maximum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 12th December.	Actual mean minimum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 12th December.	Actual mean daily temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.
Cuttack	82·1	86·8	+4·7	58·5	64·4	+5·9	70·3	75·0	+5·3
Calcutta	77·0	80·6	+3·6	58·4	60·7	+2·3	67·7	70·7	+3·0
Dacca	70·7	79·3	+0·6	59·3	60·4	+1·1	60·5	60·9	+0·4
Burdwan	78·4	82·4	+4·0	57·0	60·5	+3·5	68·0	71·4	+3·4
Patna	75·5	77·4	+1·9	52·6	56·3	+3·7	64·1	66·9	+2·8
Gya	76·7	80·6	+3·9	51·0	58·0	+7·0	63·9	69·3	+5·4
Purneah	77·7	75·9	-1·8	51·0	54·0	+3·0	64·4	64·9	+0·5
Hazaribagh	72·0	77·2	+5·2	51·2	54·4	+5·2	61·6	62·8	+5·2
Darjeeling	50·9	47·2	-3·7	38·2	37·1	-1·1	44·6	42·2	-2·4

Rainfall—Has been entirely confined to a few local stations and has been of little practical importance. In no case does the average fall in any large meteorological district amount to more than a few hundredths of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 12th of December 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.										RAINFALL.							
	Highest observed during week.		Lowest observed during week.		Averages for week.		Average mean of week above or below normal mean of week.		Of week.		Rainy days.		Since 1st of month.		Since 15th May 1890.			
	Of highest of each day.	Of lowest of each day.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	Average.	Normal average.	
Orissa	89·4	58·5	80·1	65·2	74·4	+5·6	0·05	0·26	-0·21	0·2	0·3	-0·1	0·05	0·36	63·32	53·69		
South-West Bengal ...	88·3	53·0	81·7	60·3	71·0	+3·4	Nil	0·06	-0·06	0·0	0·1	-0·1	Nil	0·17	56·83	51·45		
East Bengal	82·0	54·1	78·3	59·7	69·0	+1·6	0·06	0·14	-0·08	0·2	0·2	0	0·06	0·31	71·48	73·97		
North Bengal	81·0	49·7	77·4	56·1	66·7	+1·4	Nil	0·05	-0·05	0·0	0·1	-0·1	Nil	0·10	95·09	68·14		
North Behar	80·2	46·9	76·8	54·8	65·8	+1·9	Nil	0·05	-0·05	0·0	0·1	-0·1	Nil	0·05	64·38	48·03		
South Behar	82·4	50·0	79·2	56·7	68·0	+4·3	Nil	0·04	-0·04	0·0	0·1	-0·1	Nil	0·05	54·76	48·24		
Chutia Nagpur	80·0*	51·4*	77·3*	56·2*	66·8*	+5·7*	0·02	0·03	-0·01	0·1	0·1	0	0·02	0·06	46·02	48·35		

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 9th December 1890.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.					Humidity at 10 A.M.	Rainfall past 24 hours.
			Inches.	*	*	*	*	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.			
December ...	7th ...	30·031	70·3	81·1	21·7	59·4	74·6	66·1	529	60·5	61	Nil	%	Inches.
" "	8th ...	047	71·4	82·0	21·3	60·7	75·1	67·1	558	62·1	64	...		
" "	9th ...	047	72·0	82·9	21·9	61·0	74·6	67·6	583	63·3	68	...		
" "	10th ...	29·999	75·6	84·9	18·8	66·1	77·6	67·1	524	60·3	55	...		
" "	11th ...	987	74·6	81·9	14·6	67·3	77·1	68·1	569	62·5	61	...		
" "	12th ...	30·070	72·1	80·3	16·4	63·9	73·6	64·6	490	58·4	59	...		
" "	13th ...	023	70·7	80·9	20·5	60·4	71·6	63·6	483	58·0	62	...		

The mean 10 A.M. pressure of the seven days 30·029

The mean temperature of the seven days 72·4

The extreme variation of temperature 25·5

The maximum temperature 84·9

The mean 10 A.M. relative humidity of the seven days 61

The total fall of rain from 7th to 13th December 1890 Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 15th December 1890.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 17, 1890. 2569

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 29th November 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 29th November 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 26.5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1.8 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28·3	26·8	30·7	27·8	27·7	28·3	26·5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

It will be seen that last week the highest birth-rate was returned from Narainganj (91.1) and the lowest from Chittagong (4.7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25·7 per 1,000 of the population. The rate of the week is 7·8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	39·1	43·2	28·2	24·7	32·0	33·5	25·7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	'WEEKS ENDING—				TOWNS.	'WEEKS ENDING—					
	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.		8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.		
Burdwan	25·9	22·9	33·6	41·2	Narainganj	...	...	41·4	58·0	58·0	120·1
Midnapore	24·8	29·4	29·4	29·1	Chittagong	...	...	21·	14·1	9·4	18·8
Hugli and Chinsurah	27·9	52·5	37·7	27·9	Comillah	...	...	23·1	19·3	23·1	39·8
Serampore	43·1	72·6	80·4	53·0	Patna City	...	...	16·2	14·3	14·3	14·6
Uttarpara	37·7	66·1	28·3	75·5	Gya	...	...	44·4	44·4	49·9	30·1
Howrah	19·5	22·9	26·9	26·9	Arrah	...	...	22·7	12·0	13·2	7·2
Kali	24·6	21·1	17·5	17·5	Mozaffarpore	...	...	20·7	17·0	17·0	14·6
Krishnagar	18·9	5·7	5·7	5·7	Durbhaug	...	...	14·2	18·9	33·0	27·5
Raniganj	6·9	12·0	30·0	35·9	Chupra	...	...	12·1	8·0	13·1	8·0
Santipore	19·3	7·0	17·5	8·8	Bhagalpur	...	...	16·3	17·2	19·0	15·4
Jessore	24·5	40·0	18·4	36·7	Monghyr	...	...	40·7	27·1	26·2	28·0
Ramnagar Basnaleah	47·3	13·1	47·3	47·3	Purneah	...	...	24·2	13·9	6·9	20·8
Darjiling	29·6	7·4	22·2	...	Pouri	...	...	23·3	65·0	58·7	96·5
Dacca	21·4	15·6	45·4	28·5	Total	..	23·9	83·4	281	25·7	

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns:—

<i>Cholera.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes.</i>
	Ratio per <i>mille.</i>	Ratio per <i>mille.</i>	Ratio per <i>mille.</i>
Narainganj	... 62·1	Rampore Beauleah 39·4	Serampore ... 13·7
Poori	... 39·8	Uttarpara ... 37·7	Narainganj ... 29·0
Howrah	... 5·7	Jessore ... 36·7	Serampore ... 23·6
Dacca	... 3·2	Poori ... 33·6	Poori ... 21·0
		Comillah ... 23·1	Hughli and Chinsurah 13·1
			Burdwan ... 12·2
			Gya ... 11·6
			Dacca ... 11·0

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 2·3 per 1,000 in the preceding week; 11·7 from fever, against 14·2; 2·5 from bowel-complaints, against 3·5; and ·3 from injury, against ·4. Small-pox and other causes exhibit the same ratios as in the preceding week, *viz.*, ·1 and 7·5 per 1,000 respectively.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>	
	Ratio per <i>mille.</i>	Ratio per <i>mille.</i>	Ratio per <i>mille.</i>
Males 26·8	Christians ... 41·8	Under 1 year ... 149·5	
Females 24·5	Hindus ... 26·2	1 and under 5 years ... 28·0	
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 109	Mahomedans ... 24·4	5 " 10 " ... 16·5	
		10 " 15 " ... 7·6	
		15 " 20 " ... 13·5	
		20 " 30 " ... 15·0	
		30 " 40 " ... 22·0	
		40 " 50 " ... 28·2	
		50 " 60 " ... 25·5	
		60 years and upwards ... 72·0	

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

The 15th December 1890.

Sanitary Commissioner for Bengal.

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3

MORTALITY ACCORDING TO—

SEX.

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11

12

DISTRICTS	NAMES OF MUNICIPAL TILES.	POPULATION.		BIRTHS.		DEATHS FROM—		Disease.	Ratio of male deaths to every 100 female deaths.	DEATHS, POPULATION PER ANNUM.	RATIO PER 1,000 OF POPULATION PER ANNUM.
		Males.	Females.	Total.	Males.	Females.	Total.				
Burdwan ...	Burdwan ...	18,053	16,017	34,070	10	15	22	15·8	18·3	33·6	83
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	10	17	10·8	15·5	26·3	70
Hugli ...	Hugli ...	15,855	15,820	31,675	5	13	18	4·9	19·7	24·6	25
Ghuria ...	Ghuria ...	18,559	12,887	26,446	7	10	17	15·7	19·1	33·4	70
Serampore ...	Serampore ...	3,046	2,464	5,510	3	3	6	23·3	29·3	56·6	100
Uttarpur ...	Uttarpur ...	53,133	37,689	90,823	29	26	55	16·6	14·9	31·5	111
Howrah ...	Howrah ...	7,836	6,919	14,655	3	4	10·5	3·5	14·0	300	...
Krishnanagar ...	Krishnanagar ...	18,928	14,214	27,427	4	1	5	7·6	1·9	9·5	400
Nuddea ...	Ranaghat ...	4,058	4,055	8,103	1	...	1	6·0	No female birth.	1	...
Santipore ...	Santipore ...	13,708	15,976	29,687	6	7	13	10·5	12·3	22·8	85
Jesore ...	Jesore ...	4,830	3,868	8,495	1	...	1	6·1	No female birth.	...	...
Rajshahi ...	Rampore Raxabpur ...	10,765	9,025	19,791	5	14	19	13·1	38·3	49·9	35
Darjiling ...	Darjiling ...	4,579	4,439	7,013	4	2	6	29·6	14·8	44·5	200
Dacca ...	Dacca ...	42,782	37,579	80,161	20	28	48	13·0	18·1	31·1	71
Chittagong ...	Chittagong ...	15,340	8,790	22,130	1	1	2	2·3	4·7	100	...
Tipperah ...	Comilla ...	8,153	5,553	13,506	4	7	11	15·4	27·0	42·4	57
Patna ...	Patna City ...	78,762	61,476	160,227	23	15	38	7·5	4·8	12·3	173
Gya ...	Gya ...	7,005	4,955	12,961	9	13	22	37·3	53·8	91·1	69
Shibchar ...	Arrah ...	20,960	22,605	43,465	5	4	9	6·0	4·8	10·8	125
Moufferpore ...	Moufferpore ...	23,084	19,458	42,742	14	6	20	17·0	7·3	24·3	253
Durbanga ...	Durbanga ...	33,774	32,332	66,096	87	22	59	20·1	17·3	46·4	168
Satin ...	Ujhura ...	25,116	26,154	51,670	11	10	21	11·1	10·0	21·1	110
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	26	45	17·2	23·5	40·7	73
Manghyr ...	Manghyr ...	28,184	29,396	57,520	23	18	41	20·8	16·3	27·1	127
Purneah ...	Purneah ...	8,483	6,553	15,016	2	3	5	6·9	10·4	12·3	66
Poore ...	Poore ...	18,247	11,537	24,784	4	2	6	8·4	4·2	12·6	200
TOTAL ...	TOTAL ...	550,956	410,588	1,061,534	273	134	406	26·5	273	540	102
					3	288	51	7	155	525	35
					4	28	7	117	275	3	75
					5	28	7	267	351	34	267
					6	28	7	3	28	34	106

DISTRICTS	NAMES OF MUNICIPAL TILES.	POPULATION.		BIRTHS.		DEATHS FROM—		Disease.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS, POPULATION PER ANNUM.	RATIO PER 1,000 OF POPULATION PER ANNUM.
		Males.	Females.	Total.	Males.	Females.	Total.				
Burdwan ...	Burdwan ...	18,053	16,017	34,070	10	15	22	15·8	18·3	33·6	83
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	10	17	10·8	15·5	26·3	70
Hugli ...	Hugli ...	15,855	15,820	31,675	5	13	18	4·9	19·7	24·6	25
Ghuria ...	Ghuria ...	18,559	12,887	26,446	7	10	17	15·7	19·1	33·4	70
Serampore ...	Serampore ...	3,046	2,464	5,510	3	3	6	23·3	29·3	56·6	100
Uttarpur ...	Uttarpur ...	53,133	37,689	90,823	29	26	55	16·6	14·9	31·5	111
Howrah ...	Howrah ...	7,836	6,919	14,655	3	4	10·5	3·5	14·0	300	...
Krishnanagar ...	Krishnanagar ...	18,928	14,214	27,427	4	1	5	7·6	1·9	9·5	400
Nuddea ...	Ranaghat ...	4,058	4,055	8,103	1	...	1	6·0	No female birth.	1	...
Santipore ...	Santipore ...	13,708	15,976	29,687	6	7	13	10·5	12·3	22·8	85
Jesore ...	Jesore ...	4,830	3,868	8,495	1	...	1	6·1	No female birth.	...	...
Rajshahi ...	Rampore Raxabpur ...	10,765	9,025	19,791	5	14	19	13·1	38·3	49·9	35
Darjiling ...	Darjiling ...	4,579	4,439	7,013	4	2	6	29·6	14·8	44·5	200
Dacca ...	Dacca ...	42,782	37,579	80,161	20	28	48	13·0	18·1	31·1	71
Chittagong ...	Chittagong ...	15,340	8,790	22,130	1	1	2	2·3	4·7	100	...
Tipperah ...	Comilla ...	8,153	5,553	13,506	4	7	11	15·4	27·0	42·4	57
Patna ...	Patna City ...	78,762	61,476	160,227	23	15	38	7·5	4·8	12·3	173
Gya ...	Gya ...	7,005	4,955	12,961	9	13	22	37·3	53·8	91·1	69
Shibchar ...	Arrah ...	20,960	22,605	43,465	5	4	9	6·0	4·8	10·8	125
Moufferpore ...	Moufferpore ...	23,084	19,458	42,742	14	6	20	17·0	7·3	24·3	253
Durbanga ...	Durbanga ...	33,774	32,332	66,096	87	22	59	20·1	17·3	46·4	168
Satin ...	Ujhura ...	25,116	26,154	51,670	11	10	21	11·1	10·0	21·1	110
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	26	45	17·2	23·5	40·7	73
Manghyr ...	Manghyr ...	28,184	29,396	57,520	23	18	41	20·8	16·3	27·1	127
Purneah ...	Purneah ...	8,483	6,553	15,016	2	3	5	6·9	10·4	12·3	66
Poore ...	Poore ...	18,247	11,537	24,784	4	2	6	8·4	4·2	12·6	200
TOTAL ...	TOTAL ...	550,956	410,588	1,061,534	273	134	406	26·5	273	540	102
					3	288	51	7	155	525	35
					4	28	7	117	275	3	75
					5	28	7	267	351	34	267
					6	28	7	3	28	34	106

DISTRICTS.	NAMES OF MUNICIPALITIES.	13		14		15		16	
		MORTALITY ACCORDING TO—				AGE.			
		CLASS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS.	
		Christians.	Hindus.	Mahomedans.	Buddists.	Christians.	Hindus.	Mahomedans.	Buddists.
		Other classes.	Other classes.	Other classes.	Other classes.	Under 1 year.	Under 1 year.	Under 1 year.	Under 1 year.
						1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.
						years.	years.	years.	years.
						20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.
						years.	years.	years.	years.
						60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.
						years.	years.	years.	years.
						60 years and upwards.	60 years and under 60 years.	60 and under 60 years.	60 years and up-wards.
Burdwan	Burdwan	21	6	+	+	46·1	30·4	...	...
Midnapore	Midnapore	8	4	2	+	233·2	16·0	23·8	...
Hughli	Hughli and Chinsurah.	13	4	2	+	26·7	33·7	...	...
Serampore	Serampore	24	4	2	+	40·5	221·7	...	...
Uttarpurba	Uttarpurba	8	...	...	...	78·1	...	...	...
Howrah	Howrah	35	12	...	...	26·7	39·4	...	...
Bali	Bali	5	...	...	...	19·4	...	...	...
Krishnagar	Krishnagar	2	1	...	...	5·6	6·3	...	...
Nuddea	Ranaghat	4	2	...	...	28·4	76·2	...	...
Santipore	Santipore	3	2	...	...	7·5	11·6	...	...
Jessore	Jessore	4	2	...	...	46·1	57·2	...	...
Rajshahya	Rampore Bealeah	6	12	...	...	31·5	63·6	...	...
Darjiling	Darjiling	3	...	...	...	34·0	...	...	...
Dacca	Dacca	23	20	...	...	218·9	25·4	26·4	...
Naraiaganj	Naraiaganj	16	13	...	...	131·6	109·7	...	...
Chittagong	Chittagong	1	4	...	...	196·0	9·0	13·6	...
Tipperah	Comilla	2	6	...	...	17·5	42·2	...	...
Patna	Patna City	40	5	...	...	17·5	6·4	...	...
Gya	Gya	34	10	...	...	29·5	32·3	...	...
Shahabad	Arrah	4	2	...	...	6·7	8·4	...	...
Mozafferpore	Mozafferpore	7	5	...	...	12·1	20·8	...	...
Durbhanga	Durbhanga	26	9	...	...	27·9	26·6	...	...
Sarun	Chupra	8	...	...	...	10·5	...	...	...
Bhagulpore	Bhagulpore	13	4	...	...	17·0	12·1	...	...
Monghyr	Monghyr	21	10	...	...	24·4	41·4	...	...
Purneah	Purneah	5	1	...	...	28·3	9·2	...	...
Foori	Foori	46	...	...	...	9·5	...	...	...
TOTAL		6	381	138	...	44·8	6·2	24·4	...
						73	50	35	14
						21	61	74	68
						68	88	91	149·5
						149·5	28·0	16·5	7·6
						28·0	16·5	7·6	13·5
						16·5	7·6	13·5	15·0
						15·0	22·0	28·2	25·5
						22·0	28·2	25·5	72·0

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
603	1. Grain ...	855·40	5,436·71	6,292·11	4,38,451	6,292·11	4,38,451	
..	2. Cotton .....	.....	.....	.....	.....	.....	.....
164	3. Oilseeds ...	35·	4,284·74	4,319·74	4,29,890	4,319·74	4,29,890	
329	4. Salt ...	3,361·14	29·37	3,390·51	3,06,551	3,390·51	3,06,551	
16	5. Piece-goods ...	5·62	14	19·62	11,650	19·62	11,650	
32	6. Metal ..	193·77	11·22	204·99	37,035	204·99	37,035	
61	7. Building materials	352·59	140·70	493·29	3,188	493·29	3,188	
1,980	8. Miscellaneous ...	6,263	19,073·44	25,336·44	27,50,321	25,336·44	27,50,321	
101	9. Fuel ...	733·29	894·62	1,627·91	16,002	1,627·91	16,002	
4 rafts	10. Timber ...	397 c. ft.	305 o. ft.	702 c. ft.	935	702 o. ft.	935	
20 "	11. Bamboos ...	82 c. ft.	17,779 c. ft.	17,861 c. ft.	1,772	17,861 c. ft.	1,772	
3,286 & 24 rafts.	12. Total ...	{ 11,799·81 & { 479 c. ft.	29,884·80 & 18,084 c. ft.	41,684·61 & 18,563 c. ft.	39,95,795	{ 41,684·61 & { 18,563 c. ft.	39,95,795	
2,425 & 24 rafts.	13. Total of same month last year	{ 8,737 & { 311 c. ft.	18,957 & 24,125 c. ft.	27,694 & 24,436 c. ft.	30,17,002	{ 27,694 & { 24,436 c. ft.	30,17,022	
		Up.	Down.	Total.				Rs. A. P.
4. Total number of boats plying cargo	No.	1,418	1,868	3,286	Total tollage of month— 24+25+26	...	22,211 6 0	
4a. Empty boats	"	923	196	1,119	Total tollage of same month last year	...	16,802 15 6	
5. Total number of boats plying passenger	No.	920	1,315	2,235				
6. Total registered tonnage, cargo	Tons	30,788	62,651	93,439	<i>Memorandum of Tollage.</i>			
7. Total registered tonnage, passenger	Tons	1,065	841	1,906				
8. Ton-mileage	.....	.....	.....	.....
9. Estimated value of cargo	Rs.	14,42,726	25,50,362	39,93,088	1. Balance not recovered on the 1st of the month	...	Rs. A. P.	
10. Number of passengers	No.	1,604	1,881	3,485	2. Tollage per month	...	1,017 10 6	
11. Rafts, bamboos	O. ft.	82	17,779	17,861	3. Total	...	22,211 6 0	
12. Do., bullahs	"	397	305	702	4. Amount paid into treasury during the month	...	23,229 0 6	
13. Estimated value of rafts	Rs.	665	2,042	2,707	5. Balance due at the end of the month	...	22,776 12 10	
14. Tollage on boats	,,	7,726·10·6	14,458·4·6	22,184·15·0				
15. Compounded tollage on boats	Rs.	.....	.....	.....	
16. Tollage on rafts	,,	4·2·0	22·5·0	26·7·0				
17. Total tollage on boats per ton-mile*	...	.....	.....	.....
18. Total tollage on rafts per 100 cubic feet ...	Rs.	.....	.....	0·2·3				
								452 3 8

* Boats in these rivers do not pay per mile.

Abstract for the month of October 1890 as compared with the corresponding month of the previous year.

	1890-91.				1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Tollage	22,211 6 0	1,40,199 3 0	16,802 15 6	1,33,863 2 9		

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
93	1. Grain ...	673	24	697	28,347	697	28,347	
2	2. Cotton ...	2	.....	2	1,170	2	1,170	
14	3. Oilseeds ...	69	.....	69	6,210	69	6,210	
26	4. Salt ...	.....	202	202	22,640	202	22,640	
8	5. Piece-goods *... 6. Metal ...	.....	29	29	48,400	29	48,400	
20	7. Building materials ...	38	88	126	994	29	451	
672	8. Miscellaneous ...	191	519	710	92,643	701	92,423	
13	9. Fuel ...	6	12	18	92	18	92	
14 rafts	10. Timber ...	3,437 c. ft.	.....	3,437 c. ft.	2,143	3,437 c. ft.	2,143	
15 "	11. Bamboos ...	650 "	75 c. ft.	725 "	77	725 "	77	
848 & 29 rafts	12. Total ...	{ 979 & 4,087 c. ft.	874 75 c. ft.	{ 1,853 & } 4,162 c. ft. }	2,02,716	{ 1,747 & } 4,162 c. ft. }	{ 2,01,953	
796 & 47 rafts	13. Total of same month last year.	1,290 & 5,081 c. ft.	626 607 c. ft.	{ 1,916 & } 5,688 c. ft. }	1,51,271	{ 1,883 & } 5,688 c. ft. }	{ 1,50,841	

	Up.	Down.	Total.	Rs. A. P.
14. Total number of boats plying cargo No.	385	463	848	Total tollage of month— 24+25+26 ... 4,259 9 9
15. Total number of boats plying passenger No.	117	89	206	Total tollage of same month last year ... 4,668 15 3
16. Total registered tonnage, cargo Tons	2,787	2,777	5,564	
17. Total registered tonnage, passenger Tons	965	1,017	1,982	<i>Memorandum of Tollage.</i>
18. Ton-mileage ...	108,356	125,234	233,590	
19. Estimated value of cargo Rs.	61,561	1,38,935	2,00,496	
20. Number of passengers No.	2,351	3,876	6,227	1. Balance not recovered on the 1st of the month 2,906 3 3
21. Rafts, bamboos C. ft.	650	75	725	2. Tollage per month ... 4,259 9 9
22. Do., bullahs "	3,437	.....	3,437	
23. Estimated value of rafts Rs.	2,213	7	2,220	3. Total ... 7,165 13 0
24. Tollage on boats "	1,998-4-0	2,133-0-3	4,131-4-3	
25. Compounded tollage on boats Rs.	5-5-6	27-13-0	33-2-6	4. Amount paid into treasury during the month ... 2,667 0 6
26. Tollage on rafts "	95-0-0	0-3-0	95-3-0	
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-4	5. Balance due at the end of the month ... 4,498 12 6
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-4-7	

Abstract for the month of October 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
Tollage	Rs. A. P. 4,259 9 9	Rs. A. P. 37,806 2 0	Rs. A. P. 4,668 15 3	Rs. A. P. 33,620 8 9

CALCUTTA,
The 16th December 1890.G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 13th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 13TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 14TH DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
Rice and paddy	900	78,450	1,110	1,149	73,775	932
Jute	279	1,70,155	3,000	400	2,32,850	4,455
Firewood	144	85,325	1,282	74	45,050	653
Other articles	1,130	2,48,520	3,921	1,206	2,74,675	4,276
Total	2,453	5,82,450	9,313	2,829	6,26,350	10,316

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of September 1890, as compared with the same month of the previous year.

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	869	.....	873	.....	869	873	6	6
Cotton, raw	.....	.....	6	.....	.....	.....	.....	.....
Cotton piece-goods—	67	2	16	.....	69	16	.....	53
1.—European	67	2	16	.....	69	16	.....	53
Grains—	115	2	110	29	117	139	22	.....
2.—Rice	103	8	56	.....	111	56	.....	55
4.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Hides and skins—	.....	6	.....	.....	6	.....	.....	6
1.—Hides of cattle—	.....	6	.....	.....	6	.....	.....	6
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—	1	.....	3	2	1	5	4	.....
Metals—	1	6	2	7	2	2	.....	5
Oils—	4	.....	2	.....	2	2	.....	2
1.—Caster	3	.....	1	.....	3	1	.....	2
2.—Kerosine	2	.....	.....	.....	2	.....	.....	2
3.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oilseeds—	77	.....	38	.....	77	38	.....	39
2.—Mustard and rape	77	.....	38	.....	77	38	.....	2
6.—Others	2	.....	.....	.....	2	.....	.....	2
Provisions—	3	.....	2	.....	3	2	.....	1
1.—Ghee	.....	12	15	12	15	3	.....	3
2.—Dried fruits and nuts	2	7	1	.....	9	1	.....	8
3.—Others	.....	.....	2	.....	2	2	.....	2
Paper and pasteboard	32	.....	32	4	32	36	4	.....
Railway plant and rolling-stock	64	.....	23	.....	64	23	.....	41
Salt	.....	.....	2	.....	35	2	.....	33
Silk, raw—	1	34	.....	.....	1	2	1	.....
2.—Indian	1	34	.....	.....	1	2	1	.....
Silk piece-goods—	6	.....	1	.....	6	.....	.....	6
2.—Indian	6	.....	1	.....	6	.....	.....	6
Stone and lime	6	.....	.....	.....	12	8	.....	4
Sugar—	12	.....	8	.....	11	30	19	.....
1.—Drained	12	.....	8	.....	11	30	19	.....
2.—Undrained	11	.....	30	.....	2	13	9	2
Tobacco	2	.....	.....	.....	2	.....	.....	2
Timber	4	.....	18	4	4	13	9	.....
All other articles of merchandise	85	15	77	19	100	96	.....	4
Total	1,432	93	1,292	76	1,555	1,368	76	263

Tons.

INCREASE.

Grains—

(2) Rice 22

This increase is due to greater despatches from intermediate stations.

Sugar—

(2) Undrained 19

This is due to greater demand at Azimgunj.

DECREASE.

Cotton piece-goods—

(1) European 53

Grains

(4) Others 55

Oil-seeds—

(2) Mustard and rape 39

Salt 41

Silk, raw—

(2) Indian 33

All these decreases are due to breach of the line by flood.

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of September 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
Coal	Tons. 1,568	Tons. 2,185	Tons. 6,974	Tons. 1,670	Tons. 8,176	Tons. 8,644	Tons.	Tons. 468
Cotton, raw	....	66	....	6	....	31	35	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	....	....	2,937	73	3,591	113	3,010	3,704
Grains—								
2.—Rice	....	....	2,197	2,614	1,328	1,601	4,811	2,929
5.—Others	....	....	909	2,958	832	2,294	3,867	3,126
Hides and skins—								
2.—Skins of sheep, &c.—								
b.—Undressed	....	....	3	402	7	540	405	547
Jute—								
1.—Raw—								
a.—Screwed	....	....	1	4,569	....	10,601	4,570	10,601
b.—Unscrewed	....	....	61	38,376	45	52,937	33,437	52,982
2.—Gunny-bags and cloth	....	....	106	801	57	767	907	824
Metals—								
3.—Brass and copper, wrought	....	....	747	61	744	122	808	866
Oils—								
2.—Kerosine	....	....	1,077	2	402	4	1,079	406
3.—Others	....	....	131	47	296	13	178	219
Oil-seeds—								
1.—Linseed	....	....	76	754	64	815	830	879
2.—Rape and mustard	....	....	76	754	64	815	830	879
3.—Til or gingelly	....	....	76	754	64	815	830	879
4.—Niger	....	....	76	754	64	815	830	879
5.—Castor	....	....	76	754	64	815	830	879
6.—Poppy	....	....	76	754	64	815	830	879
7.—Others	....	....	76	754	64	815	830	879
Provisions—								
2.—Betel-nuts	....	....	72	49	122	168	121	230
3.—Others	....	....	433	161	425	228	594	633
Railway plant and rolling-stock	....	....	3,304	....	5,625	1,405	5,645	7,030
Salt	....	....	....	30	2,862	9	3,334	2,871
Sugar—								
1.—Drained	....	....	956	91	403	235	1,047	638
2.—Undrained	....	....	956	91	403	235	1,047	409
Tea—								
1.—Foreign	....	....	1	2,393	2	2,183	2,994	2,185
2.—Indian	....	....	1	2,393	2	2,183	2,994	2,099
Wood—								
1.—Timber	....	....	73	59	63	16	132	79
2.—Firewood	....	....	1,700	....	1,523	....	1,700	1,523
Tobacco	....	....	20	1,192	56	1,342	1,212	1,308
All other articles of merchandise—								
1.—Unmanufactured	....	....	2,407	935	2,426	2,796	3,342	5,223
2.—Manufactured	....	....	560	....	527	....	560	527
Hay, straw, and wooloo (C. & S.-E. Sections)	....	....	560	....	527	....	560	527
Total	....	19,279	57,798	28,290	70,824	87,225	1,08,114	4,758
								25,647

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of September 1890.

	INCREASES.	Tons.
Rice
From the Northern and Behar Sections principally.
Kerosine oil
The increase is due to the opening of Budge-Budge.
		1,882
		673

DECREASES.

Cotton piece-goods	....	....	....	....	....	....	....	694
Due to suspension of traffic on account of floods.	....	....	....	....	....	....	....	....
Jute, unscrewed	....	....	....	....	....	....	....	14,545
Serajganj, Narayanganj, Goalundo and Pangsa show very large decreases due to suspension of traffic on account of floods.	....	....	....	....	....	....	....	....
Jute, screwed	....	....	....	....	....	....	....	6,031
This decrease was in traffic from Narayanganj and Goalundo, and is said to be due to the same cause as in the foregoing item.	....	....	....	....	....	....	....	....

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, the 10th December 1890.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of September 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	222	.....	1,624	.....	873	1,62	.....	751
Cotton twist and yarn—								
1.—European	...	...				
2.—Indian	...	...				
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	...	...	126	.....	416	1	126	417
b.—In boxes	...	...				
2.—Indian—								
a.—In bales and bundles	...	...				
b.—In boxes	...	...				
Grains—								
2.—Rice	150	41	62	18	191	80	111	.....
5.—Others	50	2	55	286	52	341	.....	289
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	...	...				
b.—Undressed	...	...				
2.—Skins of sheep, &c.—								
a.—Dressed	...	...				
b.—Undressed	...	...				
Jute—								
1.—Raw—								
b.—Unscrewed	...	...	5	1,878	9,383	1,878	9,383	.....
2.—Gunny-bags and cloth	...	...	2	1	7	1	6	7,505
Metals—								
1.—Copper, unwrought	...	...				
2.—Brass, unwrought	...	...				
3.—Brass and copper, wrought	...	...	10	2	44	22	12	54
4.—Iron	...	...				
5.—Tin	...	...				
6.—Others	...	...				
Oils—								
2.—Kerosine	55	.....	122	.....	52	122	.....	70
3.—Others	22	88	88	.....	22	88	.....	66
Oilseeds—								
1.—Linseed	...	...				
2.—Rape and mustard	...	...				
3.—Til or gingelly	...	...				
4.—Niger	...	...	54	22	22	93	76	39
5.—Castor	...	...				
6.—Poppy	...	...				
7.—Others	...	...				
Provisions—								
2.—Betel-nuts	...	...	32	2	80	32	82	56
3.—Others	6	17	16	40	23	56	51	33
Railway plant and rolling-stock	184	1	42	10	103	52	51	.....
Salt	.....		247	7	185	254	.....	69
Sugar—								
1.—Drained	...	...	13	90	9	204	103	110
2.—Undrained	...	...	10	21	30	38	31	37
Tobacco	.....						
All other articles of merchandise—								
1.—Unmanufactured	257	148	357	180	405	546	.....	141
Total	1,161	2,273	3,137	10,398	4,188	13,535	168	9,515

Comparative statement of the principal commodities carried over the Bengal Central Railway during the month of September 1890.

DECREASES.

	Tons.
Coal	751
Sufficiency of stock for railway and flotilla consumption.	.....
Jute, unscrewed	7,505
From Khoolna and Nawapara due to suspension of traffic on account of floods at Benapole.	.....

F. P. QUINLAN,

Joint-Auditor and Examiner of Accounts.

CALCUTTA, the 10th December 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	238,716	Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Or per mile of railway ...	202 4 9	3,08,602 15 0	22,70,980 20	6,39,559 7 0	17,750 15 0	9,65,913 5 0	73,376	88,405	161,782
For previous 22 weeks of half-year ...	5,003,952	54,33,623 15 0	4,13,79,808 10	90,48,096 11 0	3,63,855 13 5	1,57,35,576 7 5	1,434,922	1,677,571	3,113,493
Total for 23 weeks ...	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,696 12 5	1,67,01,489 12 5	1,508,298	1,765,970	3,274,275
COMPARISON.									
Total for corresponding week of previous year ...	252,032	3,19,717 10 8	23,83,374 30	6,14,273 14 0	22,613 15 11	9,56,605 8 7	68,895	85,121	154,016
Per mile of railway corresponding week of previous year ...	209 9 4	.....	.....	402 10 9	14 13 2	627 1 3	.....	.....	.....
Total to corresponding date of previous year ...	5,553,493	62,01,434 9 11	4,86,75,284 20	1,10,06,306 8 6	3,85,976 12 4	1,75,93,717 14 9	1,513,187	1,851,351	3,364,536

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 7TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
1,525½	9,56,606	627	1,525½	9,65,913	633	1,525½	2,96,20,470	539	1,525½	2,77,33,880	505	.....	18,88,590

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	14,453	Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Or per mile of railway ...	253	7,835 2 0	53,430 20	3,867 2 0	42 0 0	11,444 4 0	1,673	721	2,394
For previous 22 weeks of half-year ...	288,792	1,67,793 12 0	7,73,482 10	50,886 13 0	723 13 0	2,19,404 6 0	31,357	12,142	43,499
Total for 23 weeks ...	303,245	1,75,623 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,848 10 0	33,030	12,863	45,893
COMPARISON.									
Total for corresponding week of previous year ...	12,423	6,536 4 11	40,319 20	2,377 13 0	50 10 3	8,964 12 2	1,738	709	2,537
Per mile of railway corresponding week of previous year ...	217	114 4 4	705 0	41 9 2	0 7 2	156 11 8	.....	.....	.....
Total to corresponding date of previous year ...	318,858	1,77,970 11 10	10,37,565 0	52,566 3 0	1,602 11 3	2,32,139 10 1	35,040	16,921	52,961

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 7TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
57½	5,925	157	57½	11,444	200	57½	3,45,136	168	57½	3,59,808	175	13,673	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	18,431	Rs. A. P. 4,679 6 0	Mds. S. 13,332 0	Rs. A. P. 543 8 0	Rs. A. P. 6 11 0	Rs. A. P. 5,229 9 0	Rs. A. P. 882	Rs. 86	Rs. 968
Or per mile of railway ...	210 4 11		.....	24 6 10	4 10 0	235 0 7	.....	.....	.....
For previous 22 weeks of half- year ...	361,830	89,603 8 0	1,56,366 10	5,811 4 0	129 6 0	95,544 2 0	19,856	1,110	20,06
Total for 23 weeks ...	380,261	94,282 14 0	1,69,748 10	6,354 12 0	136 1 0	1,00,773 11 0	20,738	1,196	21,93
COMPARISON.									
Total for corresponding week of previous year ...	17,857	4,623 8 8	38,317 0	585 9 0	13 2 6	5,222 4 2	876	972	1,148
Per mile of railway correspond- ing week of previous year ...	.....	207 12 10	.....	26 5 1	0 9 5	234 11 4	.....	.....	.....
Total to corresponding date of previous year ...	410,033	1,00,511 5 1	2,62,185 10	6,505 15 0	143 4 3	1,07,160 8 4	21,073	1,950	23,023

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
22½	Rs. 5,222	Rs. 235	22½	Rs. 5,239	Rs. 235	22½	Rs. 1,89,798	Rs. 237	22½	Rs. 1,86,824	Rs. 232	.....	Rs. 3,974

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 29th November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (including steam-boat).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	6174,078	Rs. A. P. 89,980 0 0	Mds. S. 6,26,186 0	Rs. A. P. 1,66,700 0 0	Rs. A. P. 28,870 0 0	Rs. A. P. 2,85,550 0 0	Rs. A. P. 23,560	Rs. 32,148	Rs. 55,648
Or per mile of railway ...	223	118 0 0	821 0	218 0 0	110 0 0	346 0 0	.....	.....	.....
For previous 21 weeks of half- year ...	62,921,760	12,05,236 0 0	a1,28,24,018 0	31,92,762 0	3,45,496 0 0	*48,33,494 0 0	465,126	703,922	a1,169,048
Total for 22 weeks ...	3,095,838	13,85,216 0 0	1,34,51,104 0	33,59,462 0 0	3,74,336 0 0	51,19,044 0 0	488,626	736,070	1,224,696
COMPARISON.									
Total for corresponding week of previous year ...	146,975	78,394 0 0	6,91,535 0	1,94,052 0 0	30,995 0 0	3,03,441 0 0	22,786	39,283	62,019
Per mile of railway correspond- ing period of previous year ...	197	105 0 0	926 0	260 0 0	111 0 0	376 0 0	.....	.....	.....
Total to corresponding date of previous year ...	3,136,470	14,29,907 0 0	1,38,25,267 0	34,61,514 0 0	3,97,501 0 0	52,88,022 0 0	496,468	713,584	1,210,052

* Audited up to week ending 4th October 1890.

a Ditto ditto 18th October 1890.

† Excluding steamer earnings.

b Due to moon eclipse and Rashjatra mella.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
747	Rs. 3,03,441	Rs. 406	763	Rs. 2,85,550	Rs. 374	717	Rs. 74,23,404	Rs. 296	760	*75,01,702	Rs. 282	78,238	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	37,090	14,350 0 0	43,593 0	3,110 0 0	740 0 0	18,200 0 0	3,600	2,023	5,623
Or per mile of railway ...	207	115 0 0	349 0	25 0 0	6 0 0	146 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	402,750	17,5442 0 0	78,52,351 0	70,216 0 0	4,487 0 0	*2,50,145 0 0	82,067	31,452	*113,519
Total for 22 weeks ...	529,849	18,9792 0 0	8,95,874 0	73,326 0 0	5,227 0 0	2,68,845 0 0	85,667	33,475	119,142
COMPARISON.									
Total for corresponding week of previous year ...	27,111	10,188 0 0	38,755 0	2,737 0 0	1,263 0 0	14,188 0 0	3,572	2,100	5,672
Per mile of railway corresponding period of previous year ...	127	82 0 0	310 0	22 0 0	10 0 0	114 0 0	.....	.....	.....
Total to corresponding date of previous year ...	606,017	2,08,195 0 0	12,62,838 0	1,16,192 0 0	4,788 0 0	3,29,175 0 0	77,928	53,288	131,915

* Audited up to week ending 4th October 1890.
† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
125	14,188	114	125	18,200	146	125	5,00,022	116	125	*4,33,794	99	.....	75,298

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 86 miles open.

	COACHING TRAFFIC.			MERCHANTISE AND MINERAL TRAFFIC.			Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Coaching.	Merchandise.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.					
Total traffic for the week ...	15,921	6,890 0 0	38,518 0	3,600 0 0	90 0 0	10,580 0 0	2,415	1,405	3,820		
Or per mile of railway ...	185	80 0 0	448 0	42 0 0	1 0 0	123 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	4317,909	1,03,153 0 0	*4,46,350 0	40,645 0 0	5,441 0 0	*1,49,260 0 0	50,310	15,483	*65,793		
Total for 22 weeks ...	333,830	1,10,073 0 0	4,84,868 0	44,245 0 0	5,531 0 0	1,59,849 0 0	52,725	16,888	69,613		
COMPARISON.											
Total for corresponding week of previous year ...	20,547	6,452 0 0	45,286 0	4,680 0 0	352 0 0	11,484 0 0	2,495	1,596	4,091		
Per mile of railway corresponding period of previous year ...	239	75 0 0	527 0	54 0 0	4 0 0	133 0 0	.....	.....	.....
Total to corresponding date of previous year ...	538,697	1,08,651 0 0	5,64,000 0	47,389 0 0	4,622 0 0	1,60,663 0 0	54,783	21,243	70,025		

* Audited up to week ending 4th October 1890.
† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
8	11,484	123	86	10,680	123	86	2,84,941	71	86	*2,41,710	80	6,769	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.
Approximate Return of Traffic for week ended 29th November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	3,404	Rs. A. P. 1,230 0 0	Mds. S. 9,881 0	Rs. A. P. 160 0 0	Rs. A. P. 30 0 0	Rs. A. P. 1,820 0 0	730	410	1,140
Or per mile of railway ...	125	45 0 0	363 0	21 0 0	1 0 0	67 0 0	.....	.....	.....
For previous 21 weeks of half-year ...	1,61,198	21,975 0 0	2,16,110 0	11,501 0 0	353 0 0	*33,829 0 0	14,250	7,833	22,083
Total for 22 weeks ...	64,602	23,205 0 0	2,25,991 0	12,061 0 0	383 0 0	35,649 0 0	14,980	8,243	23,223
COMPARISON.									
Total for corresponding week of previous year ...	3,078	1,095 0 0	18,405 0	1,221 0 0	55 0 0	2,374 0 0	586	395	981
Per mile of railway corresponding period of previous year ...	113	40 0 0	676 0	45 0 0	2 0 0	87 0 0	.....	.....	.....
Total to corresponding date of previous year ...	68,256	24,921 0 0	1,90,141 0	13,166 0 0	1,790 0 0	39,877 0 0	12,742	7,763	20,504

* Audited up to week ending 4th October 1890.

† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
27½	Rs. 2,374	Rs. 87	27½	Rs. 1,820	Rs. 67	Rs. 27½	Rs. 65,456	Rs. 69	Rs. 27½	*61,651	Rs. 65	.....	Rs. 3,805

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 29th November 1890, on 600 miles open.

	COACHING TRAFFIC.			MERCHANTISE AND MINERAL TRAFFIC.			Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Coaching.	Merchan- dise.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	175,100	Rs. 2,92,500	Rs. 2,29,690	Rs. 31,010	Rs. 8,090	Rs. 1,34,690	18,648	12,286	30,934	.....	.....
Or per mile of railway ...	250'50	132'33	328'60	48'66	11'57	192'56	.....	.....	.....	.....	.....
For previous 20 weeks of half-year ...	1,515,620	5,92,789	56,38,054	7,20,000	1,44,607	14,58,386	253,652	251,301	504,953	.....	.....
Total for 21 weeks ...	1,690,720	6,85,289	58,67,744	7,55,000	*1,52,697	15,92,986	272,300	263,587	535,887	.....	.....
COMPARISON.											
Audited figures.	79,791	30,324	33,235	41,038	7,314	78,676	10,299	13,134	23,433	.....	.....
Total for corresponding week of previous year, 640 miles open ...	122'94	46'73	513'49	63'23	11'27	121'23	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	1,759,786	6,05,055	58,87,240	6,75,979	1,77,922	15,18,986	240,430	274,239	523,678	.....	.....

* Steam-boat earnings for the week

Ditto ditto to date Rs. 7,000

Ditto ditto adjustment .. 1,20,040

Train mileage figures :-

a Bengal & N.-W. Section. Tirhoot Section.

Rs. Rs.

* Ajodhya bridge earnings for the week

Ditto ditto adjustment .. 2,020

Ditto ditto to date .. 900

Coaching ... 9,100

Goods .. 6,260

6,026

Total .. 2,920

Total ... 15,360

15,574

Ditto ditto to date .. 9,250

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

	RECEIPTS FOR WEEK ENDING 30TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH NOVEMBER 1889.	TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 29TH NOVEMBER 1890.	Total increase in 1890-91.	Total decrease in 1890-91.		
	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.						
600	Rs. 1,84,600	Rs. 192'56	Rs. 640	Rs. 78,676	Rs. 121'23	Rs. 676	Rs. 29,16,666	Rs. 124'29	Rs. 649	Rs. 28,34,630	Rs. 125'20	Rs. 82,027

a Increase in passenger traffic this week is due to the fairs held at Ajodhya and Sonapur.

N.B.—Earnings of B. and N.-W. Section.

Week ended 29-11-90. Week ended 30-11-89.

Earnings of Tirhoot Section.

Week ended 29-11-90. Week ended 30-11-89.

Coaching ... 41,740

Goods ... 13,000

Other earnings ... 4,400

Rs. 14,981

Rs. 21,610

Rs. 3,690

Total ... 59,140

Rs. 33,700

Rs. 75,460

Rs. 44,976



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 24, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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LIBERALITY OF BABU RAMESWAR PROSHAD NARAIN SINGH, OF MUKSUDPORE IN THE DISTRICT OF GYA.

No. 4529P, dated Calcutta, the 20th December 1890.

From—SIR JOHN EDGAR, K.C.I.E., C.S.I., Chief Secretary to the Government of Bengal,
To—The Commissioner of Patna.

I AM directed to acknowledge the receipt of your letter No. 3Ct., dated the 11th instant, and to request that you will be so good as to communicate to Babu Rameswar Proshad Narain Singh, of Muksudpore, the Lieutenant-Governor's appreciation of his public spirit and liberality in contributing Rs. 9,000 towards the erection of a building for the accommodation of the Lady Doctor attached to the Gya branch of the Lady Dufferin's Fund and of those native *purdahnashin* ladies who do not wish to go to the common hospital for treatment.

The correspondence will be published in the *Calcutta Gazette*.

No. 3Ct., dated Camp Gya, the 11th December 1890.

From—C. C. STRVENS, Esq., Commissioner of the Patna Division,
To—The Chief Secretary to the Government of Bengal.

I HAVE much pleasure in enclosing a copy of a letter from Babu Rameswar Proshad Narain Singh, of Muksudpore, with which he has sent Rs. 9,000 to the Magistrate of Gya to be spent in providing a building for the accommodation of the Lady Doctor attached to the Gya branch of Lady Dufferin's Fund and of native *purdahnashin* ladies who do not wish to go to the common hospital for treatment.

2. The offering is made in commemoration of Sir Steuart Bayley's late visit to Gya, with whose name Babu Rameswar Proshad Narain Singh wishes it to be connected.

3. I would ask you to bring this handsome donation to the notice of His Honour the Lieutenant-Governor, and would suggest that special mention of it should be made in the *Calcutta Gazette*.

4. I ask this more particularly because Babu Rameswar Proshad Narain Singh quite lately gave another handsome donation of Rs. 15,000 towards the Lady Doctor's fund when it was first started—*vide* Government order No. L 2, dated 10th April 1890.

RICE CROP OF 1890.

The following papers are published for general information.

REVENUE DEPT., AGRICULTURE,
CALCUTTA;

The 23rd December 1890.

By order of the Lieut.-Govr. of Bengal,
P. NOLAN,
Secretary to the Govt. of Bengal.

Note on the Final Forecast of the winter rice crop, 1890.

SINCE the issue of the preliminary forecast, dated 2nd October, abundant and timely rain has fallen over the whole province. Except in a few districts of North and East Bengal, where the winter rice crop was damaged to the extent of 2 to 3 annas by excessive rain and floods, the prospects of the harvest have been more or less improved by timely rain in the latter half of September and in October in almost every part of the province. Save in the tracts which have seriously suffered from floods, which form a very small proportion of the total area under rice, a full average crop, or more than a full average crop, may now be expected throughout Bengal. In the Sudder and Chuadanga subdivisions of the Nuddea district, in the Bongong and Jhenidah subdivisions of the Jessore district, and in the Sudder and Sewan subdivisions of the Sarun district, the probable outturn, owing to damage by floods, is reported to be only 8 annas or less, and in them there is, as remarked in the *bhadoi* forecast issued on the 30th October, cause for watchfulness on the part of the local authorities.

2. It has not been found possible in the present forecast to estimate, in tons, the total outturn of rice or the probable amount available for export. The safest indication of the amount likely to be available for export is the amount actually exported in past years when

the crop was a full average one, as it is in the present year. The figures noted in the margin show the total exports of rice by sea from Bengal for the past five years. Looking to the fact that the character of the winter and *bhadoi* rice of last year was nearly the same as in the present year, it may be assumed that the quantity likely to be available for export in the coming year will be at least as large as in the present year, and will probably be about 10,000,000 cwt.

M. FINUCANE,
*Director of the Department of Land
Records and Agriculture, Bengal.*

CALCUTTA,
The 10th December, 1890.

II.—Final Forecast of Winter Rice Crop in Bengal for the year 1890.

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BURDWAN ...	Sudder ...	1,242	963	663	486	651	9	14	The crop was affected to some extent by floods and excess of rainfall during transplanting time. The difference between this and the previous forecast is so slight that no explanation is necessary.	
	Kaneegunge ...	671	398	352	352	352	13	15		
	Cuttia ...	352	265	217	88	214	4	14		
	Culna ...	422	350	200	133	200	7	16		
	District Total ...	2,697	2,006	1,432	1,059	1,417	8 to 10	About 15	In June the rainfall was in excess of the normal, but in July and August, which include the transplanting season, the fall was short of the normal, and not in excess as stated by the Collector, except in the Sudder sub-division, where the fall was in excess in July, but short in August.	
	Sudder ...	1,921	670	570	570	570	12	16		
BANKURA ...										
	Bishenpore ...	700	350	296	290	290	14	14	In the current year the weather was favourable, except in the months of August and September, when the young plants suffered to some extent for want of sufficient rainfall.	
BEERBHOOM ...	District Total ...	2,821	1,020	860	860	860	13	15	In the Bishenpore sub-division, which differs from the Sudder in agricultural conditions, the unfavourable state of the weather in August and September so far affected the crop as to reduce the outturn formerly estimated from 16 to 14 annas.	
	Sudder ...	1,108	777	604	604	620	16	20	The rainy season has throughout been almost ideally perfect in Beerbboom. Good rain in June (and very early in June too), very heavy rain in July; good sun in August, sufficient rain in September and a crowning mercy of mild rain in October. It is hardly possible to conceive of better than this. Floods do not trouble this district, and there has been no abnormal condition; the land is bearing about as much as it can produce.	
MIDNAPORE ...	District Total ...	1,756	1,245	954	928	1,020	16 $\frac{1}{2}$	20	Owing to deficiency of rainfall there has been a partial failure of crops almost throughout the whole district. On account of deficiency of rainfall at the time of sowing, the lands could not be wholly cultivated, and again owing to the excess of rainfall in November the crop was damaged to some extent. Owing to rainfall in October some lands that were not cultivated at the time of the former report were cultivated, and hence the difference in area under this year's winter rice.	The rainfall appears to have been well distributed and in excess of the normal up to end of July: in August the fall was, to judge from the meteorological returns, very deficient. At Bankura only 4.25 inches of rain were recorded in the first four weeks of August against the normal fall of 13.51 inches, and at Bishenpore, 3.52, against 14.51 inches. The transplanting operations appear to have suffered from this deficiency, particularly in the Bishenpore sub-division.
	Sudder ...	3,252	1,799.5	1,255	1,249	1,252.5	16	14		
	Contai ...	891	713	645	641	617	13	12		

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
MIDNAPORE —concl'd.	Tumlook	... 610	465	435	435	435	Annas. 14	Annas. 16	Although there was scanty fall of rain during the transplanting season, this part of the district being low, there was no marked damage as was apprehended. The copious fall of rain in September and October did much good to the crops.	
	Ghatal	... 366	278	206	206	206	12	14	Owing to deficiency of rainfall during the ploughing season and also owing to scantiness of rainfall in September, two annas of the crop on the whole has been damaged.	
	District Total	... 5,119	3,205·5	2,541	2,524	2,510·5	13½	14		
	Sudder	... 442	276·25	221	221	221	8	16	.....
HOOGHLY	Serampore	... 242	250	157	157	157	14	16	The rainfall was scanty all over the district throughout the season, the following being the figures for rainfall in July and August :—	
	Jehanabad	...	262	131	131	131	14	14	Deficiency of rain at ploughing and sowing time affected the crop to the extent of two annas, but the balance is an exceptionally fine crop and brings the harvest up to at least an average one.	
	Howrah	... 171	109	95	88	95	14	16	A loss of 2 annas is due to deficiency of timely rain and to Damoodar flood.	
	Oolooberiah	... 363	200	170	150	140	16	16	.....
24. PREGUN- HAWA	District Total	... 1,697	1,097·25	774	747	744	13	About 16	There was deficiency of rain during the rainy season and also later on.	
	Sudder	... 1,070	717	593	585	590	16	15	The scanty fall of rain at the sowing season and the unequal distribution of rain affected the crop of the current year.	
	Diamond Harbour	513	455	443	443	446	16	16	The heavy fall of rain followed by the floods in a small area of the Basirhat sub-division reduced the former estimate by one anna.	
	Barasat	... 392	243	183	182	183	16	12	The rainfall was seasonable and sufficient in May and June. In July and August the fall was scanty, particularly in Barasat. The recorded fall in July and August was 16·79 inches against the normal fall of 23·75 inches.	
BASIRHAT	Basirhat	... 530	459	333	309	333	16	13		
	Barrackpore	... 42	12	6	6	6	16	12		
DUM-DUM	Dum-Dum	... 56	36	34	27	30	16	16		
	District Total	... 2,603	1,900	1,592	1,552	1,588	16	16		

KHOLNA	Sudder	1,572.40	390	305	317	302	15	12	Heavy rain during the sowing season and the floods have affected the outturn of the winter rice crop.
	Satkhira	1,272.88	430	321	300	309	14	9	
Area of boundary, khals, and rivers of Sunderbuns in this district.	Bagirhat	1,508.63	520	308	350	300	14	14	The rainfall during April, May, and June, which include the sowing season, was not particularly heavy in the district, except in June, in the Bagirhat sub-division. The estimates of outturn appear to be too low.
	District Total	4,849.91	1,359	934	917	911	14	11	
NUDDA	Sudder	701	484	159	159	159	6	3	The rainfall has been favourable to the crop, but a considerable portion of it has been destroyed by the floods. The prospects of the crop in Chuadanga have changed for the better since the date of the first forecast.
	Kushtea	588*	441*	330*	104	110	8	10	
Meherpore	Meherpore	627	560	62	62	62	12	10	The rainfall, although slightly deficient in August, was on the whole favourable. The losses must be wholly ascribed to floods. If the outturn in the Sudder and Chuadanga subdivisions is as low as reported, there is cause for watchfulness and apprehension of distress.
	Chuadanga	437	273	60	60	60	8	3	
Ranaghat	Ranaghat	427	256	64	64	64	8	10	The rainfall has been favourable to the crop, but a considerable portion of it has been destroyed by the floods. The prospects of the crop in Chuadanga have changed for the better since the date of the first forecast.
	District Total	2,750	1,053	675	449	455	9	About 7	
Sudder	Bongong	889	475	260	260	260	16	12	The inundation has destroyed about one-fourth of the winter rice crop. For insufficiency of rainfall at the sowing season, a portion of the land annually sown with winter rice remained fallow. The crop has this year been mostly destroyed by the floods.
	Bongong	649	389	269	240	240	16	4	
JESSORE	Narail	487	293	200	200	225	18	16	In the first forecast the outturn was estimated at 12 annas, as it was apprehended that the flood would cause much damage to the crops. The prospect has since changed for the better and a 16-anna outturn is estimated.
	Jhenidah	475	317	100	100	100	12	8	
Magurah	Magurah	425	268	128	128	1	16	14	The early inundation has destroyed about a moiety of the winter rice crop.
	District Total	2,925	1,742	947	928	953	144	11	
MOORSHEED ABAD.	Sudder	767	576	84	84	84	8	10	Late sowing owing to deficient rainfall and unusual floods affected the outturn of this year's crop in parts.
	Lalbagh	372	223	204	200	198	10	13	
Jungipore	Jungipore	508	351	63	63	63	18	15	Late sowing owing to deficient rainfall and unusual floods affected the outturn of this year's crop in parts.
	Kandi	512	353	235	235	233	17	18	
DINAGEFORA	District Total	2,159	1,503	586	582	578	14	14	There would have been a bumper crop but for the damage done to the crops of lowlands by excessive rain. Excessive but timely rain throughout the sowing season has caused the prospects of the crop this year to be better than those of last year's.
	Whole district	4,118	2,600	2,000	1,950	2,000	16	18	
RAJSHAHYE	Sudder	944	588	300	336	309	17	14	The inundation caused by the heavy showers of the latter part of September has damaged the crop to some extent at the Sudder sub-division, and so the outturn has been reduced by 1½ annas.
	Natore	817	612	590	578	590	14	15	
Nowgong	Nowgong	603	500	300	300	280	20	16	Though flood has done some injury to the crops both at Natore and Nowgong sub-divisions, still good outturn is expected.
	District Total	2,364	1,700	1,190	1,214	1,170	17	15	

* During the current year Chur Meerchader, having an area of 30 square miles, was transferred from the Rajshahye district to the Kushtea sub-division; hence the increase over those hitherto shown in crop forecasts.

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DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
RUNGPORE	{ Sudder Nelphamari Kurigram Gyabanda	1,151 638 937 760	900 480 700 580	675 365 500 440	675 360 500 440	675 365 500 470	Annas. 10 12 16 14	Annas. 16 12 13 13	The unusual flood and overflowing of the river have damaged the crop. Owing to this cause the previous estimate of the crop in the Nelphamari, Kurigram, and Gyabanda sub-divisions has been reduced.	
	District Total	3,485	2,660	1,980	1,975	2,010	13	13½		
BOGRA	Whole district	1,452	913	440	440	440	17	13	The rainfall this year was plenteous and timely up to 26th September. Since then excessive falls and floods have destroyed some and damaged more of the crop, especially in the north and north-west of the district, and have reduced the previous estimate.	
PURNA	Whole district	1,847	1,462	639	574	623	13	12	Owing to the excessive rain and sudden rise of the rivers, the standing crops have been further damaged to the extent of 3 annas.	
DARJEELING	{ Sudder, including Kalimpong. Kurseong	726 185	92	16	16	16	14	15	The heavy rains caused this year's outturn to be less than that of last year. No winter rice crop is grown in the Kurseong sub-division. The crop has suffered less in Siliguri than was expected from heavy rains; hence the increase of the estimate of outturn.	
	Siliguri	253	180	95	94	95	15	15		
	District Total	1,184	272*	111	110	111	14½	14		
JALPAIGURI	Bykantsapore	447	298	160	160	160	10	14		
	Boda	402.72	295	182	180	181	12	11		
	Patgram	86.88	75	48	45	47	12	13		
	Mynaguri	524	219	109	125	141	12	14		
	Alipore	649	200	120	100	120	12	14		
	Falsakots	496	170	100	100	100	10	16		
	Bholka	132	44	40	40	40	12	14		
	District Total	2,737.60	1,301	759	750	789	12	13½		
DACCA	{ Sudder Manickunge Munshunge Naraingunge	1,266 489 461 641	633 366 290 360	423 274 87 90	423 274 80 90	429 274 80 90	14 12 12 16	12 8 12 16	Extraordinary high floods and strong gales in September and October caused much damage to this year's crop in the Sudder and Manickunge sub-divisions, and hence the outturn is reduced.	
	District Total	2,787	1,559	896	866	866	14	12		

FURRERPORE	Sudder	860	602	451	429	333	14	10	The plants in low lands have been considerably damaged by floods.
	Madaripore	979	652	440	440	440	14	12	The state of winter rice crop in the <i>bil</i> lands is reported to have improved since the submission of the last report.
	Goalundo	428	321	214	214	214	12	14	Damaged in places by floods, but on the whole a 14-anna crop may be expected.
	District Total	2,267	1,575	1,105	1,083	987	13½	12	
BACKERGUNGE	Sudder	1,111	658	450	450	450	16	16	Season conditions have been normal, except that in places slight damage was done by floods.
	Ferozepore	692	500	370	370	370	14	16	
	Bholn	615	409	250	250	250	16	16	
	Patiakhalii	1,231	500	320	320	320	16	16	
	District Total	8,649	2,898	1,420	1,420	1,420	16	16	
MYMENSINGH	Sudder	1,849	1,070	400	375	400	18	16	The outturn of <i>aman</i> rice crop is expected to be fair. The unusually high flood has not considerably damaged the crop.
	Tangail	1,061	789	375	365	365	16	16	
	Jamalpore	1,244	930	367	415	289	14	13½	The crop was affected to some extent on account of excessive rain in September.
	Netrokona	1,389	694	550	500	500	12	16	
	Kishoregunge	744	350	180	175	180	14	14	The estimate of 14-anna crop is not likely to have been affected by the rainfall, as was apprehended in the last report.
	District Total	6,287	3,824	1,75	1,862	1,816	1734	15	
TIPPERAH	Sudder	1,142	856	599	599	599	16	16	Since the submission of the former report timely rain has done much good to the crop.
	Branmanberia	769	553	350	349	375	19	16	The high flood-water partially damaged the winter rice in some places.
	Chandpore	580	415	300	300	300	18	18	Rain at intervals, after the submission of the last report, has improved the condition of <i>aman</i> crop.
	District Total	2,491	1,824	1,258	1,258	1,274	18	About 17*	
NOAKHALIY	Sudder	1,298	1,000	666	578	619	18	13	The decrease in the outturn is due to unequal distribution of rain at the sowing, transplantation, and harvesting time. Excessive rain and flood (and partly insects) have damaged the crop.
	Fenny	343	280	216	216	216	18	12	
	District Total	1,641	1,280	882	794	835	18	12½	
CHITTAGONG	Sudder	1,630	611	25	382	382	19	16	Heavy rainfall in the months of July and August did not do much damage. The outlook is promising.
	Cox's Bazar	937	654	78	582	466	582	19	The season throughout has been a most favourable one. A full harvest is expected.
	District Total	2,567	1,266	03	964	848	964	19	

* This includes the area under tea cultivation.

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
CHITTAGONG HILL TRACTS.	Sudder	3,583'5	43'25	7	7'5	5'8	12	14	The heavy and continuous rainfall throughout the ploughing time and proportional rain after transplantation this year were favourable to the winter rice, and a 14-anna crop may be expected.	The Commissioner remarks that, from information received from Mr. Pughe and Captain Shakespear, it seems probable that the crop beyond the frontier will be a bumper one. If the rainfall proved favourable, why should not an average crop be expected?
	Sungoo	1,835'5	23'86	4	4	3'5	12	14		
	District Total ...	5,419	67'11	11	11'5	9'3	12	14		
PATNA	Sudder	617	457	216	216	200	15	14	The outturn has been affected by excessive rainfall and flood, but the fall of <i>hatiya</i> rain has done much good to the crop and increased the estimate to 14 annas.	
	Dinapore	143	118	52	52	50	12	10	This year's crop has been greatly damaged by flood and excessive rain.	
	Barh	526	405	120	141	109	13	18	Seasonable rainfall at the time of ploughing and transplanting, and the <i>hatiya</i> rains particularly, give hopes of a bumper crop. There having been rain both at the end of September and the second week of October, the outturn of winter rice crop has been put down at 18 annas.	
	Behar	793	575	352	352	352	11	16	The rainfall this year has been very favourable for the winter rice crop throughout the season.	
GHA	District Total ..	2,079	1,555	740	761	711	13	15		
	Sudder	1,839	1,434	775	968	775	12	16	Excess of rain at the sowing and transplantation season has caused the decrease in area under winter rice by one-fifth of that of the last year's cultivation.	
	Aurungabad ...	1,246	747	336	340	340	12	16	.....
	Jehuanabad ...	607	503	325	325	325	8	14		
	Nownda ...	1,620	765	573	480	587	14	14	Two annas out of 16 annas were damaged for want of rain in September 1890.	
	District Total ...	4,712	3,440	2,009	2,113	2,027	12	15		

	Arrah	915	778	899	859'25	390	14	17	The continuous excessive rainfall just after the crop was sown prejudiced the prospects of a bumper crop, but afterwards <i>Hatiya</i> rain made up the loss. Lately, however, the appearance of a crop disease called <i>dakhinara</i> has again marred the prospects. The outturn has been a little more than average.
SHAHABAD	Buxar	656	563	289	282	282	12	14	The heavy and continuous rainfall is likely to prove favourable to the winter rice, and a 14-anna crop may be expected.
	Sassaram	1,493	859	480	374	415	10	15	<i>Hatiya</i> rain came on copiously, so a good harvest is expected.
	Shaboca	1,301	976	488	400	450	19	18	The rain has been sufficient and, as reported in my first forecast, a bumper crop is expected this year.
	District Total	4,305	3,167	1,639	1,445'25	1,537	12	16	
DURBUNGA	Sudder	1,222	929	556	585	585	17	12	Excessive rainfall and floods in August affected the outturn this year. The <i>Hatiya</i> rainfall improved the crop of the Samastipore sub-division, but did not fully counteract the damage already done by excessive rain.
	Samastipore (Tajipore), Madhubani	764	611	259	192	259	16	12	
		1,349	1,100	800	719	700	18	16	
	District Total	3,335	2,640	1,645	1,496	1,544	17	Over 13	
	Sudder	1,218	987	602'82	602'82	580	12	16	Floods swamped large tracts in these two sub-divisions and destroyed the rice crop; hence the area cultivated with rice was reduced. Over the area not affected by floods, a full crop may be expected, the later rain having been most opportune and beneficial.
MOZUFFER- PORE									The rain which has fallen since the last report has greatly improved the condition of the crops, ensuring a good outturn from the late as well as early transplantation.
	Hajeeapore Sitamarhi	771	529'6	204'31	204'31	170	14	14	The sub-division suffered very slightly on the whole from the floods, so far as the rice crop is concerned, while the timely and abundant rain at the end of the season has ensured an excellent crop on the higher lands, which form a large proportion of the cultivated area. A more than 16-anna crop is thus expected.
		1,014	770'64	500	481'64	500	16	18	
	District Total	3,063	2,257'24	1,307'13	1,288'77	1,230	14	16½	
	Sudder	998	849	225	217	217	14	5	Transplantation was effected with facility owing to favourable rainfall, but subsequently the crop was damaged by heavy rainfall, floods and want of sun. In most low lands the crop was entirely lost. On the floods subsiding transplantation was done again in many places, but the seedlings were destroyed by the floods, and paddy could not be retransplanted in all places. The land where paddy failed will be sown with rabi crops. The <i>Hatiya</i> rain exceedingly benefited the rice crop and raised its prospects from 2 annas, as previously estimated, to 5 annas.
SARAN	Sewan	553	603	255	255	275	8	8	The continuous heavy rainfall damaged the paddy much, and in consequence the outturn will be less than was estimated before.
	Gopalgunge	771	550	180	239	180	14	14	The unusually heavy rains in July and August damaged the transplanted paddy, a part of which had to be replanted, and about one-fourth of the whole area under paddy was not replanted at all for want of seedlings.
	District Total	2,622	2,092	660	711	672	12	9	

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CHAMPARUN	Motihari	1,518	1,022	350	350	350	10	16	Timely rainfall during the year, especially the fall in the beginning of October, has secured an average crop.	
	Bettiah	2,013	1,200	700	700	700	16	16		
	District Total	3,531	2,222	1,050	1,050	1,050	16	16		
MONGHYR	Sudder	1,559	1,001	436	436	436	12	20	A bumper crop is expected in the Sudder sub-division on account of the opportune rainfall in September and October. In the Beguseraid the crop was damaged to the extent of 8 annas by floods and excessive rain. In Jamui the rainfall was timely and the harvest is expected to be good.	
	Beguseraid	769	577	21	23	23	16	8		
	Jamui	1,593	1,062	700	700	700	14	16		
BHAGULPORE	District Total	3,921	2,730	1,159	1,150	1,130	14	17	The rainfall was deficient last year, but favourable this year. Atmospheric conditions were favourable in the past as well as in the present year. The crops of this year were to some extent injured by excessive rainfall in July and August and by subsequent floods, but the injury has been compensated by more transplantation on high lands.	
	Sudder	96	655	555	550	560	10 to 12	16		
	Banksa	1,185	888	687	687	687	10	16		
PURNAKH	Madhupura	872	566	318	339	339	16	16	The rainfall was favourable both in the ploughing and sowing time, but the flood has destroyed a part of the crop here and there. Floods were more destructive last year in the Sudder sub-division than this year.	
	Scopole	1,275	936	420	478	478	14	16		
	District Total	4,268	3,065	1,980	2,054	2,064	13	16		
MALDAH	Sudder	2,572	1,500	600	600	600	12	14	The rainfall was favourable both in the ploughing and sowing time, but the flood has destroyed a part of the crop here and there. Floods were more destructive last year in the Sudder sub-division than this year.	
	Kishengunga	1,340	900	600	500	600	10	18		
	Arrareah	1,044	600	400	400	400	17	18		
MALDAH	District Total	4,956	3,000	1,600	1,500	1,600	15	16	There has been a sufficient and timely rainfall. But in parts of thanas Rani-gunge and Matirai there has been a slight damage done to the crops by floods.	
	Whole district	3,902	1,008	450	450	450	15	18		

SONTHAL PER. GUNJAHAR.	Dumka ...	1,429	716	560	354	389	19	18	Owing to abundant and seasonable rain, the former estimate is increased by 2 annas. The crop in the villages east of the Fakur thana was somewhat injured by flood. Deficiency of rainfall at the sowing time affected the winter rice.
	Dworghar ...	954	268	108	108	103	16	18	
	Goddar ...	967	676	450	409	450	13	16	
	Bajmehal ...	740	655	381	381	381	16	15	
	Fakour ...	683	511	410	410	410	16	18	
	Jamiahar ...	690	196	100	90	100	13	18	
CUTTACK	District Total ...	5,469	2,905	1,809	1,752	1,824	14½	About 17	
	Sudder ...	989	772	678	678	576	16	14	The somewhat low outturn in the Sudder sub-division is due to deficient rainfall at the time of sowing (June, 12·24 inches against the normal, 18·34 inches). The outturn is less than the average in the Kendrapara and Jajepore sub-divisions owing to deficient rainfall in August. In Kendrapara the crops of a portion of the Kujong estate were damaged by the storm-waves of 30th June 1890.
	Banki ...	116	60	36	36	36	16	16	
	Kendrapara ...	1,424	641	511	452	499	12	12	
	Jajepore ...	1,164	500	450	450	450	16	14	
	Angul ...	....	....	....	....	....	....	....
	District Total ...	3,633	1,973	1,575	1,516	1,561	15	13	
BALASORE	Sudder ...	1,158	676	589	589	580	9½	13	The outturn this year is less than average owing to excess of rainfall at the time of sowing and insufficient rain in July, August, and first half of September.
	Bhuddruck ...	408	720	580	580	580	14	12	
	District Total ...	2,066	1,390	1,169	1,169	1,169	13	12½	
POORNA	Sudder ...	1,530	720	506	506	516	14	16	Owing to excessive rain at the time of sowing up to the present date the outturn of the winter rice crop has been estimated at 16 annas in the Sudder sub-division; but if there be heavy showers or high winds in the present month, the outturn will be much lessened. There is at present (1st November) very unsettled and rainy weather, which, as well as the untimely rain at the end of October, have affected the outturn of Khurda sub-division, where the crop is far advanced.
	Khurda ...	990	415	251	251	251	14	14	
	District Total ...	2,520	1,135	757	757	767	14	15½	
	Hazaribagh ...	4,575	2,583	1,124	1,124	1,124	14	20	Throughout the district the rainfall was excessive both in July and August, and therefore favourable for rice crops both in sowing and transplanting seasons; and as sufficient rain fell both in September and October, a bumper crop is expected this year.
HAZARIBAGH	Giridih ...	2,446	1,280	555	555	556	18	20	
	District Total ...	7,021	3,878	1,679	1,679	1,679	16	20	

The low estimate of outturn for Rajmehal is not explained by the Deputy Commissioner. In May the fall was slightly deficient (3·18 against 4·93 inches), but was well distributed over the latter half of the month. In June and August the fall was slightly in excess of the normal, and in July slightly deficient. In September and October, the fall was copious and well distributed. On the whole, the fall was such as would meet all the requirements of the crop.

In August the rainfall recorded at Cuttack was in excess of the normal (14·03 against 11·64 inches); at Kendrapara it was 9·12 against 13·21, but not so scanty as to reduce the crop by 4 annas, in July the rainfall having been normal; at Jajepore, there was marked deficiency in August (5·49 against 11·74 inches). The rainfall throughout the season in the Sudder sub-division, although somewhat in excess in July, was very well distributed, and there is no reason why an average crop should not be expected.

The rainfall in June was in excess of the normal in all places, but was not of an exceptional character. In July and August, however, the fall was singularly scanty in all places: at Balasore only 5·7 inches fell in July against the normal fall of 11·89 and 7·88 inches in August, against 12·78 inches.

Early in July the rainfall was very excessive; on the 2nd 8·24 inches were recorded at Khurda and 6·22 inches at Poorna.

The rainfall in June and July was in excess of the normal. In August the fall was short of the normal; at Hazaribagh it was 10·99 inches against the normal fall of 12·87 inches, and at Giridih 9·5" inches against 11·20 inches, but the fall being well distributed and sufficient, the slight deficiency could do no harm.

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
LOHARDUGGA	Sudder ...	7,784	1,662	1,455	1,298	1,420	14	14	{ In the last report the outturn in Palamow was estimated at 14 annas, but subsequently it has been reduced to 12 annas. The showers in the latter part of the season improved the prospects of the crop.	The rainfall in June and July was slightly in excess of the normal and was well distributed; in August the fall was much in excess of the normal at Lohardugga and Palamow, but short at Ranchi. Excess of rain cannot have done harm at this time. No reason is assigned why the crop should be less than the average, or why the previous estimate has been reduced by 2 annas.
	Palamow ...	4,260	2,000	852	852	800	10	12		
	District Total ...	12,044	3,662	2,307	2,150	2,220	12	13		
MANBHOOM	Sudder ...	3,344	1,300	600	553	600	16	18	{ A good crop is expected owing to timely rainfall during the year.	
	Gobindpore ...	803	300	263	133	963	14	16		
	District Total ...	4,147	1,600	863	686	863	15	17		
SINGHBOOM	Kolhan ...	1,946	973	450	450	425	13	13	The deficient outturn is due to want of sufficient rain. The crop was slightly improved by the late rain.	In June the rainfall was seasonable and sufficient to judge from the rainfall returns, but in July it was rather scanty, 9.42 inches against 14 inches at Chyebassa. In August and up to the 12th September the fall was still scantier, only 5.2 inches having been recorded at Chyebassa in August, against the normal fall of 13.2 inches and 1.06 inch in the first 12 days of September against the normal fall of 4.32 inches.
	Porabat ...	660	247	150	150	150	15	14		
	District Total ...	3,753	1,783	1,000	1,000	975	16	Above 14		
	Total for all Bengal ...	152,840.51	86,968.88	55,189.63	50,401.52	51,389.8	14	15		

NOTE.—Twenty annas to be taken as representing a bumper crop, 16 annas an average crop, and 12 annas three-fourths of an average crop.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 24, 1890.

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DIVISION.	District.	MAY.		JUNE.		JULY.		AUGUST.		SEPTEMBER.		OCTOBER.	
		Normal average.	Actual rainfall.										
BURDWAN	Burdwan	5.01	3.07	9.23	20.40	11.80	10.56	12.26	6.86	7.87	11.49	4.16	4.27
	Bankoora	4.03	4.58	9.56	13.80	13.12	16.20	13.78	4.46	8.53	9.95	3.77	5.04
	Beerbhoom	3.49	2.38	9.10	17.41	12.85	14.92	13.67	11.91	9.18	10.31	3.41	3.37
	Midnapore	5.05	6.84	9.59	15.04	13.76	6.47	13.25	6.90	8.55	9.66	5.26	7.85
	Hoogley	5.34	4.93	9.75	14.01	12.71	6.74	14.21	8.57	8.43	9.02	4.97	5.70
PRESIDENCY	Howrah	5.81	4.60	9.45	20.29	13.13	7.34	14.28	8.12	8.64	9.39	3.65	5.39
	24-Pergunnahs	5.79	6.04	9.83	12.09	12.97	8.94	13.72	10.64	9.62	10.96	4.46	10.83
	Khoonia	6.61	6.82	12.44	16.63	13.45	12.95	12.48	9.10	9.38	5.78	4.52	7.13
	Nuddea	6.35	4.62	9.62	12.15	10.48	11.79	13.10	8.66	8.52	10.17	4.17	8.87
	Jessore	7.01	5.72	12.10	14.74	10.35	10.84	11.54	10.11	8.43	5.12	4.45	8.61
RAJSHAHI	Moorshedabad	5.21	2.44	9.05	11.93	11.00	17.37	11.79	11.11	9.77	9.40	4.37	7.18
	Dinajpore	6.45	6.14	13.25	16.53	12.14	16.80	11.87	16.10	11.17	17.42	3.44	11.45
	Rajshahiye	6.69	5.41	10.26	19.16	11.82	20.58	11.45	8.44	11.26	15.55	4.53	10.23
	Rungpore	11.24	8.65	21.49	27.71	13.90	14.30	12.35	14.32	13.00	23.96	4.46	13.69
	Bogra	7.91	6.94	13.34	16.07	13.69	15.39	11.81	14.65	10.70	17.03	4.34	11.60
DACC	Pubna	7.11	7.98	11.32	16.50	10.53	19.60	11.95	9.10	10.27	12.32	4.43	5.63
	Darjeeling	7.70	5.96	24.02	27.59	30.36	53.95	26.67	29.55	17.42	6.09	6.10	10.62
	Juliapores	11.96	7.47	29.12	40.82	26.06	41.46	25.91	51.07	23.50	21.27	5.25	18.20
	Dacca	8.74	11.87	12.91	12.56	13.84	15.35	12.38	12.32	10.65	3.93	4.61	5.35
	Furneedpore	8.80	6.44	12.61	9.07	12.49	11.69	12.68	10.31	8.68	3.61	4.24	7.78
CHITTAGONG	Backergunge	7.80	6.40	18.66	16.70	18.78	19.70	16.14	12.33	11.36	7.17	5.62	7.46
	Mymensingh	9.94	11.06	17.42	20.49	13.55	17.86	14.07	12.93	12.94	9.92	5.32	9.33
	Tipperah	10.21	10.29	17.21	14.07	15.27	17.82	16.37	11.77	11.58	4.79	5.26	6.65
	Noakhally	10.05	10.78	24.18	17.93	21.82	25.26	23.49	21.98	16.26	12.18	7.37	9.57
	Chittagong Hill	6.54	4.11	26.32	22.35	28.52	49.23	23.48	23.74	14.07	11.27	6.60	4.65
PATNA	Tracts.	...	...	...	...	...	...	...	...	...	...	...	...
	Patna	2.18	2.15	5.03	8.98	12.12	15.66	10.58	13.33	7.20	7.12	2.97	1.18
	Gya	1.74	1.91	5.32	12.68	11.83	13.14	11.71	20.88	6.20	5.64	2.58	0.42
	Shahabad	1.30	0.70	5.30	10.30	11.97	10.72	11.40	12.79	7.29	7.76	3.19	1.39
	Durbhunga	2.68	2.46	8.00	11.22	11.60	23.12	10.71	15.49	9.25	5.55	2.72	1.87
BHAGULPORE	Mozafferpore	2.51	2.44	7.08	8.46	11.26	20.44	10.11	13.23	8.27	7.03	3.03	1.81
	Saran	1.93	2.19	6.38	10.64	11.41	17.53	10.21	13.80	7.68	8.03	3.74	1.50
	Chumparun	2.69	3.95	8.31	12.81	12.12	23.25	12.18	14.10	9.05	8.85	3.46	5.56
	Monghyr	2.34	2.67	6.38	15.18	11.80	18.88	11.21	10.89	7.75	5.87	3.13	2.25
	North Bhagulpore	3.96	2.66	8.71	10.65	11.61	25.20	11.87	14.19	9.76	8.56	3.38	2.19
ORISSA	South ditto	2.64	4.38	7.77	9.98	10.91	14.72	11.23	13.71	7.98	4.73	3.64	4.39
	Purneah	5.50	4.38	12.98	20.30	13.47	21.44	14.63	22.42	13.63	18.19	3.43	8.94
	Mildah	4.50	4.64	10.60	11.26	11.50	11.29	12.03	10.66	10.52	12.95	3.62	7.60
CHOTA NAGPORE	Sonthal Pergun-	3.76	3.14	8.59	15.10	12.97	15.99	12.79	13.20	8.96	6.89	3.62	10.02
	nahs.	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	3.95	4.26	9.12	7.80	12.20	13.27	12.20	8.88	9.53	16.74	5.69	7.46
CHOTA NAGPORE	Balasore	4.95	5.23	8.25	13.39	12.20	6.72	11.77	7.42	11.28	18.35	5.86	9.54
	Pooree	2.76	2.17	7.89	10.66	10.65	16.79	11.46	10.85	9.98	15.81	7.42	10.84
CHOTA NAGPORE	Hazaribagh	9.38	1.18	7.90	11.03	13.40	17.68	13.07	9.94	8.10	7.37	3.26	1.61
	Lohardugga	2.35	1.15	7.00	7.92	12.94	16.13	12.51	17.95	8.94	5.39	2.47	1.35
	Manbhoom	3.25	2.80	8.42	12.73	11.53	11.16	12.87	8.31	7.68	5.75	3.68	3.14
CHOTA NAGPORE	Singbham	4.17	4.25	8.01	9.04	14.92	9.42	13.78	3.48	8.38	7.18	2.94	1.73

Final Note on the outturn of the bhadoi crops, 1890.

At the time of the preparation of the preliminary *bhadoi* forecast (15th September), most of the *bhadoi* crops had been harvested, and the remainder was nearly ready for the sickle. Deficiency or excess of rainfall after that date could not have affected these crops to any appreciable extent. The estimates of outturn consequently remain unaltered except in a few districts where slight changes have been made, as the result of further enquiries instructed by the local officers since the submission of their preliminary forecasts.

M. FINUCANE,

*Director of the Dept. of Land
Records and Agriculture, Bengal.*

CALCUTTA,

The 10th December 1890.

II(a).—Final report on bhadoi crops in Bengal, 1890.

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Sub-division.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal,
BURDWAN	Sudder	1,242	993	139	111	130	Early paddy— Aus, kelash and nehal.	10	12	The crops were partially affected by excess of rainfall at the sowing time and by floods before harvesting time.	
	Raneeunge	671	398	30	30	30	Aus-paddy Biri kalai Jowar	13	15		
	Cutwa	352	265	33	22	32	Early paddy— Tora Nehali Jhanti Kalai	8	12		
	Culna	432	350	100	80	100	Aus paddy	10	16		
	District Total	2,697	2,066	302	243	292		10½	14		
BANKURA	Sudder	1,921	670	45	45	45	Early paddy— Aus, kelash, tetko and chali.	14	16	Deficiency of rainfall in August and September affected to some extent the growth of the plants, or there would have been a bumper crop.	
	Bishenpore	700	350	43	43	43	Aus and kelash paddy	16	16		
	District Total	2,621	1,020	88	88	88		15	16		
	Sudder	1,108	777	170	173	157	Bhadoi paddy— Aus, bora Bhadoi paddy— Aus, kalma Mahepal Bonous Neyali Bhoosa	16	20		
BEERHOOM	Rampore Hat	648	468	73	64	65		15	20	The rainy season has throughout been almost ideally perfect in Beerbboom.	
	District Total	1,756	1,245	243	237	225		More than 15	20		
	Sudder	3,252	1,789·5	419	390	399	Aus paddy Til Jowar Biri Aus paddy Biri Til Hemp Jute Aus paddy	10 13 9 13 10 8 14½ 16 12 12 15	10 13 9 13 10 8 14½ 16 12 12 15		
	Contai	881	713	68	60	58					
MIDNAPORE	Tumlook	620	465	38	38	38	Owing to the deficiency of rainfall at the time of ploughing and sowing and growth, the bhadoi crops have been partially damaged.			In July and August taken together, the rainfall was deficient all over the district, particularly in the Sudder and Contai sub-divisions; the mean actual rainfall of the district during these two months having been 13·37 against 27·01 inches. In May the fall was nearly normal, and in June considerably in excess of the normal in all parts of the district; the deficiency of rainfall at the time of ploughing and sowing noticed against Contai is not borne out by rainfall records.	
	Ghattal	366	228	22	22	22	Aus paddy Jhanji and guji amla... ...	12	16		
	District Total	5,119	3,205·5	547	519	517		14	12		

JESSORE	Jhanidah ...	475	317	60	60	60	Aus paddy ...	...	12	6	The early inundation has destroyed the greater part of the aus paddy which was about to be harvested. In the second forecast of jute, 16 annas were shown to be the estimated outturn, but the early inundation has since destroyed about 3 annas of the crop; hence the difference.
	Narail ...	487	263	30	30		28	Aus paddy	8	6	Early rise of water first destroyed the plants when they were young, and subsequent flood destroyed the ripe paddy.
	Magurah ...	425	268	84	84		84	Aus paddy	6	8	The crops were affected by excess of rainfall at harvesting time and by flood.
	District Total ...	2,925	1,742	578	578		576	.....	11	10	
MOORSHEADABAD	Sudder ...	767	576	320	320	520	Aus paddy ...	...	8	4	
	Lalbagh ...	572	233	74	74	74	Aus paddy ...	...	8	6	
	Jungipore ...	506	351	120	120	120	Aus paddy ...	...	10	9	Deficiency of rain at ploughing and sowing time caused late sowings. Floods caused most damage being early, and catching the crop which was late, on account of the sowings being late.
	Kandi ...	512	353	41	41	36	Shama ...	...			
DINAGEPORE	District Total ...	2,139	1,503	555	555	530	Kodo ...	...			
	Sudder ...	4,118	2,500	200	200	200	Early paddy—	...				
	Thakurgaon ...			200	200	200	Sandhomain ...	...			
	Whole district ...	4,118	2,500	200	200	200	Guni ...	...			
RAJSHAHI	Sudder ...	944	588	273	249	273	Tari ...	...			
	Nattore ...	817	612	153	213	200	Chabiru ...	...			
	Nowrang ...	603	500	250	250	250	Jamra ...	...			
	District Total ...	2,364	1,700	676	712	723	Jhanti ...	...			
RUPNAGORE	Sudder ...	1,151	900	290	290	290	Aus paddy ...	...	12	10	Last year the estimated area under bhadoi crop was shown in the bhadoi forecast as 440, which I find on enquiry to be too large.
	Nelphamari ...	638	480	115	120	115	Jute ...	...	14	18	There has been some loss by flood; but when the crop has been secured, it has been better than I anticipated, and the estimate of 18 annas, I think, is pretty correct.
	Kurigram ...	937	700	400	400	360	Boro paddy ...	...	10	10	
	Gulbanda ...	780	580	440	230	255	Kaon ...	...	10	8	
BOGRA	District Total ...	3,486	2,660	1,245	1,040	1,050	Til (gingelly) ...	...	10	8	Owing to the timely rainfall both at the ploughing and sowing seasons, the outturn this year was expected to be a good one, but early floods had greatly injured the crops.
	Whole district ...	1,452	913	220	220	220	Aus paddy ...	...	16	16	Unusual rains have damaged the crops to some extent.
				120	120	140	Jute ...	...	14	14	
							Aus paddy ...	...	15	15	
							Jute ...	...	15	15	
							Aus paddy ...	...	14	15	
							Jute ...	...	14	15	
							Aus paddy ...	...	15	15	
							Jute ...	...	10	10	
							Aus ...	...	13	16	
							Jute ...	...	10	16	
							.....	...	11½	16	
											Plenteous rain fell during the spring enabling ryots to get on well with their ploughing. The seed of both the crops germinated well and the later rains fully matured them. Some loss was caused by floods, but they came too late to destroy much of these crops. In respect to the outturn, later information has resulted in slight changes. The figures in columns 5, 6, and 7, and this year's estimated outturn of aus, have been revised on further enquiries being made.	

* This includes Sunderbans, 2,772.91 square miles appertaining to this district.

During the current year Chur Murchanah, having an area of about 30 square miles, was transferred from Rajshahi district to Kushtia subdivision; hence the increase.

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas will represent last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
PURNA	Pubna Serajunge	1,847	1,462	536	666	496	Aus Jute	Annas. 7 13	Annas. 10 14	Excessive rainfall and high floods damaged the crops at harvesting time. The estimate has been reduced owing to damage by high floods.	
DARJEELING	Sudder, including Kalimpong.	726	93	47	45	47	Maize paddy Marua Kaon Fafar (?)	13	12	Owing to the very heavy and incessant rains the outturn is one anna less than that of last year.	
	Kurseong	185	Very little; about 8 acres, or '01 square mile only, is under cultivation.				Paddy	12	12	On account of sufficient rainfall at the time of sowing, the outturn is good.	
	Siligooree	253	180	85	100	100	Jute Paddy Marua Maize	15	16	Excessive rainfall from the very beginning of the season was a great obstacle to the full growth and development of the plants; consequently the outturn is much less than the average.	
	District Total	1,164	972*	132	145	147		More than 13	About 12		A 12 anna crop in Kurseong cannot be said to be a good one. The crops are likely to have been damaged by excessive rainfall.
JULPIGOREE	Bykantsore	447	298	138	138	138	Early paddy— Shoni Jonera	12	14	Rainfall has been heavy, but well distributed so far as the rice crop is concerned. Jute was adversely affected at the commencement of the season.	
	Boda	402.72	295	85	85	90	Jute Betri paddy Jute Betri paddy	12 7 10 10	8 14 11 14		
	Patgram	86.88	75	18	18	20	Jute Ans paddy Jute	10 12 12	11 14 12		
	Mynaguri	524	219	62	54	78	Jute	12	12		
	Alipore	649	200	30	25	39	Early paddy— Kaladamura Dhaldamura Kanabasi	11	12		
	Fallakota	496	170	20	20	29	Jute	8	10		
	Bhalka	132	44	5	5	3	Early paddy— Nilpa Maisara Sessopal	8	12		
	District Total	2,737.60	1,301	353.5	340.5	376.3	Jute Early paddy— Maldai Jute	16 12 12	12		
	Sudder	1,266	633	211	211	211	Early paddy, viz.— Goria Moochakanji Shail Kalamannick Poranghi Sharts Kalathore Panksich Jute Grass Sugarcane	14	12	The unusual rise of the rivers has affected every crop. It has damaged the jute crop on low lands and the grass to a greater extent than was anticipated in the preliminary forecast.	

DACC A ...	Manickgunge	... 483	366	46	46	46	Early paddy, viz.— Kalmunic ... Poranghi ... Shaita ... Gareswar ... Karchamari ... Sandhamaller ... Jute ... Aus paddy ... Digher paddy ... Grass ... Sukarcane ... Early paddy, viz.— Bonijari ... Saita ... Alechahyna ... Maislanna ... Sarsufil ... Kaminisail ... Kataktara ... Gharmora ... Chinan ... Tengair ...	10	6	The prospects of aus paddy this year were much better than last year, but the extraordinary high flood of the current year damaged the crop very much. The unusual rise of the rivers has affected every crop, especially the sugarcane.	
	Munshigunge	... 401	290	100	80	100		12	12		
								16	10		
								16	12		
								16	14		
								14	4		
	Naraingunge	... 641	360	80	80	80		12	10		
	District Total	... 2,797	1,559	437	417	437		.....	11	
FURREEDPORE ...	Sudder	... 800	602	86	54	54	Early paddy— Aus, boro, asni, degha Ditto ... Early paddy— Paranghi ... Karchamuri ... Gareswar ... Kedachak ... Kumrail ... Pakhiraj ... Binnaful ... Saita ... Lakhijata ... Kaijuri ... Sada ...	8	8	The crop was affected by floods. A further damage of two annas was done to the crops of the Madaripore sub-division since the first forecast.	
	Madaripore	... 979	651	64	64	64		8	8		
	Goalundo	... 428	321	142	142	142		7	8		
	District Total	... 2,267	1,575	292	260	260		.....	8	
	Sudder	... 1,111	698	130	150	130		Aus	12	Floods interfered to some extent with sowings in the Sudder. In general rainfall has been normal, and a full average crop has been reaped.	
	Perozepore	... 692	500	90	90	90		Aus	12		
	Patnakhali	... 1,231	500	46	46	46		Aus	14		
	Rhola	... 615	400	100	100	100		Aus	16		
BACKERGUNGE ...	District Total	... 3,649	2,098	366	386	386	Early paddy— Hapa ... Boalia ... Boron ... Bailam ... Gayal ... Bhadari, &c. Aus paddy	13½	16	Two annas has been lost owing to excessive rain during the sowing time and also owing to the early rise of the river with high floods. The yield of the aus crop was fair in spite of the early high rise of the rivers.
	Sudder	... 1,849	1,070	370	270	370		.....	16	
	Tangail	... 1,041	780·75	295	293	295		.....	10	
	Jamalpore	... 1,234	930	277	277	277		.....	12	
	Netrokona	... 1,389	694	105	105	105		.....	12	
	Kishoregunge	... 744	350	100	80	90		Aus paddy	12		
	District Total	... 6,267	3,824·75	1,137	1,023	1,137		.....	12½	
									13		

* The total area estimated to be under cultivation (272 square miles) excludes the area under tea.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate area under bhadoi crops.	Approximate normal bhadoi crops.	Approximate area under last year's bhadoi crops.	Name of principal bhadoi crops.	Taking 10 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 10 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
TIPPERAH	Sudder ...	1,142	856	171·3	171·3	171·3	Early paddy— Kamini shall ... Kali do. ... Dhali do. ... Kacholant ... Bailam ... Muri ... Early paddy— Jeto jali ... Asari do. ... Satia do. ... Aus paddy ...	Annas.	Annas.	Owing to excessive rain and inundation the crops were partially damaged in some places at the harvesting time.	
	Brahmanberia ...	769	653	138·42	138·42	138·42		14	12		
	Chandpore ...	580	415	60	60	60		18	12	Frequent rains during the time of sowing and weeding and the flood reduced the yield. Flood in harvesting time reduced the yield.	
	District Total ...	2,491	1,824	369·72	369·72	369·72		16	About 13		
NOAKHALI	Sudder ...	1,298	1,000	238	324	238	Early paddy— Sholoi ... Green ... Bailam ... Sultanbhooq ... Shatia ... Kalimoga ... Harali ...	15	10	Excessive rain in March while sowing was going on, and in July and August while the crops were being cut and harvested, affected the outturn.	
	Fenny ...	343	280	85	85	85	Early paddy— Chegail ... Sholoi ... Shatia ... Bailam ... Bhadori ...	12	13	The crop has been damaged by excess of rain, flood and insects, to the extent of four annas.	
	District Total ...	1,641	1,280	323	409	323		13½	11		
CHITTAGONG	Sudder ...	1,630	611·25	152·8	152·8	115	Early paddy— Bailam ... Chikmal ... Kharia ... Shattha ... Early paddy— Pania paddy ... Kharia ...	18	12	Heavy rainfall in June and July affected the crop injuriously, and the yield has not been more than 12 annas this year.	The cause for the decrease in the area sown this year, as compared with the normal area under bhadoi crops, is not shown.
	Cox's Bazar ...	937	654·08	20·15	20·15	20·15		18	18	This has been a favourable season.	To judge from the rainfall records there was no excess of rain in the Chittagong district in June; the recorded fall in this month was short of the normal at every station except Cox's Bazar, where the excess amounted to only 1 inch. At Chittagong the deficiency was nearly 6 inches, and the number of rainy days fewer in the month.
	District Total ...	2,567	1,266·03	172·95	172·95	135·15		18	15		In July the fall was excessive, being 49·23 against 28·52 inches.

CHITTAGONG HILL TRACTS.	Sudder	3,583'5	43'25	56	37'45	35'50	Jum paddy	...	...	10	10
	Sangoo	1,815'5	23'86	18	18'76	15'5	Cotton	...	...	6	8
	District Total	5,419	67'11	54	56'21	54	Jum paddy	...	...	10	10
							Cotton	...	...	6	8
PATNA	Sudder	617	457	62	62	60	Maize	...	...	15	2
	Dinapore	143	(a)118	30	30	25	Marua	...	...	...	...
	Barh	523	(a)405	70	(a)86	65	Maize	...	...	7½	4
	Behar	793	575	194	(a)194	194	Kodo	...	...	...	...
	District Total	2,079	1,555	356	372	344	Marua	...	...	10	6
	Sudder	1,839	1,434	143	143	172	Maize	...	...	...	...
	Arungabad	1,246	747	37	40	25	Kodo	...	...	...	...
	Jehanabad	607	503	50	50	30	Urid pulse	...	...	15	2
	Nawada	1,020	765	106	100	30'5	Barai do.	...	...	...	...
GTA	District Total	4,712	3,449	536	233	307'5	Sathi paddy	...	...	...	...
	Arrah	915	778	129	75'75	43'5	Maize	...	...	16	2
	Buxar	656	563	83	83	83	Marua	...	...	16	2
							Sathi paddy	...	...	16	2
SHAHABAD							Tanguni	...	...	16	2
							Sathi paddy	...	...	16	2
							Sama	...	...	16	2
							Serha paddy	...	...	15½	3
							Sathi do.	...	...	8	2
							Marua	...	...	...	...
							Sama	...	...	...	...
							Bajra	...	...	...	...
							Tangun millet	...	...	...	...
							Janera	...	...	...	...
							Kodo	...	...	...	...
							Urid	...	...	...	...
							Til	...	...	...	...
									
									
									
									

In many cases jum cutting this year was retarded as the hill-people were engaged in cooly work; consequently almost all jums cut later were not sufficiently burnt. Incessant rain too throughout the season has washed away the earth from the roots of the plants and promoted weeds. These causes have reduced the outturn to some extent.

The poor outturn is due to flood and excessive rain throughout the season.

The excessive rainfall throughout the season and high floods at harvesting time caused great injury to the crops.

Floods destroyed the crops when the plants had grown and were thriving. In the former estimate 4 annas was put down as the probable outturn, but the janera having been resown after the subsidence of the flood, the outturn has increased by 2 annas.

The crops were damaged by excess of rain during the sowing time.

Excess of rain and floods after sowing season caused the decrease of outturn. Favourable rain at the ploughing and sowing time raised hopes, and the sugarcane fields were brought under bhadoi. The approximate increase in area is estimated at one-fifth more than that of last year.

The excessive and almost continuous rainfall of the present season interfered with every operation connected with the cultivation of bhadoi.

The large decrease in the bhadoi crops is due to the excess of rain from the very beginning of the year and of flood-water in most parts of this sub-division.

Owing to the incessant rainfall the bhadoi crops were much injured.

All bhadoi crops, except serha and sathi, in two thirds of the sub-division have been affected by excessive and continuous rain both at ploughing and sowing time, and one-third of the crops near the Ganges has been washed away by flood.

All the crops, except serha and sathi, have suffered this year in general on account of excessive rainfall after they were sown and well germinated. In the tracts lying along the river Ganges, the crops have partly been washed away, and partly submerged by the unusual flood.

In the latter half of June and in July the rainfall was very heavy and incessant in the Patna district except in Barh where the excess was not appreciable.

(a) These figures differ from those shown in last year's return. They have since been correctly ascertained and supplied by the Sub-divisional Officers.

DISTRICT.	Subdivision.	Total area of subdivision in square miles.	Area to be sown under normal bhadoi crops.	Approximate area under bhadrati crops.	Approximate area under bhadrati last year's bhadoi crops.	Estimated area under bhadrati crops.	Names of principal bhadoi crops.	Remarks by District Officer.					Remarks by the Agricultural Department, Bengal.	
								1	2	3	4	5	6	
SHAHABAD— council	Mulabazar	... 1,801	978	122	150	115	Serha paddy Sathi do. Sama ... Maize ... Serha paddy Sathi do. Sama ... Maize ... Tangon millet	... 18 18 18 18 18 18 18	2	The crops were affected by excessive rainfall at the time of sowing as well as afterwards, and also by flood in the country to the north of the Grand Trunk Road.				
	Sassaram	... 1,463	850	87	78	68			6	The deficiency in the outturn is due to excess of rain-water at the time of sowing, and subsequently the crops suffered a good deal from floods in low lands and excessive and constant rain.	The Subdivisional Officer reports that from his personal enquiry it appears that Rohtas Pergannah had an outturn of 14 annas which has increased the estimate.			
DINANAGA	Sunder	... 1,222	929	222	222	292	Mares ... Maize ... Gamri paddy ... Aus ... Shama ... Kaon ... Maize ... Sama ... Maize ... Mares ... Gamri paddy ... Sathi 18 18 18 18 18 18 18 18 18 18 18 18	12	The bhadoi crops were sown under most favourable circumstances, but excessive rainfall and floods in August affected the outturn.				
	Samastipore	... 764	611	336	300	318			18					
MADRAS	Madhubani	... 1,349	1,100	310	270	200			10					
	District Total	... 4,965	3,157	421	35675	3095			3					
MADRAS	Moradabad	... 1,918	97783	28537	28537	26537	Mare ... Mares ... Kodo ... Kaon ... Sama ... Cheena ... Jawira (jowar) Mates ... Sama ... Kodo ... Aus ... Kodo ... Kaon ... Sama 6 10 10 10 10 10 10 10 10 10 10 10 10	8	Latter reports show the outturn to have been better than at first anticipated. The excessive rainfall and floods caused serious alarm at the prospects of the crops, and led to the formation of a lower estimate of the outturn than the facts really warranted.				
	Hajipore	... 771	8296	3084	3084	3084	Mare ... Mares ... Kodo ... Kaon ... Urid ... Cheena ... Jawira (jowar) Mates ... Sama ... Kodo ... Aus ... Kodo ... Kaon ... Sama 10 10 10 10 10 10 10 10 10 10 10 10 10 10	4	The former estimate of six annas was my own, but in view of the Subdivisional Officer's report and of the destruction of the crops over a large proportion of the area shown in column 7, I accept the local estimate of four annas.				
MADRAS	Sitamarhi	... 1,014	77064	360	280	300			8	Floods after the last report, together with heavy rain, caused further damage and reduced the outturn.				
	District Total	... 3,063	2,25724	87597	86397	87397			6½					

1	2	3	4	5	6	7	8	9	10	11	12
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crop.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops,	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BHAUPORE —contd.	Madhepura	... 872	566	175	175	175	Marna ... Bhadoi paddy ... Bhadoi paddy ... Marua ...	Annas. 10 16 16 8	Annas. 12 16 16 8	Marua has been affected by excess of rainfall at harvest time, and bhadoi paddy was slightly damaged by heavy flood. Insufficient rainfall at ploughing time, unequal distribution at the sowing time, and continued rain in July and August, caused injury to marua plants; but the conditions were beneficial to the bhadoi paddy, which was further improved by a good deal of hating rain. The estimated outturn of this crop has been therefore increased by 2 annas.	In Madhepura the rainfall was in excess in June (13.61 against 8.33); in July it was still heavier (23.5 against 12), but there was plenty of fine weather, the number of rainy days being only 13 against 15.4; hence the bhadoi crops did not suffer so much here as in other parts of the district from excessive rainfall. In August the fall was normal with plenty of fine weather. There was no rain in the first-half of September. It does not therefore appear how marua harvest can have been interfered with by excess of rainfall at harvest time. The injury was probably caused by excess in June and July.
	Scopole	... 1,275	956	280	239	239					
	District Total	... 4,258	3,065	985	934	939		About 13	About 12		
PURNAH	Sudder	... 2,572	1,500	700	643	650	Aus paddy ... Mung ... Marua ... Sama ...	8	12	The rainfall was on the whole favourable both in ploughing and sowing time, but damage was done at the harvesting time by flood caused by excess of rainfall. This caused the deficiency of four annas.	The rainfall in the Sudder and Kissengunge sub-divisions was very heavy in June (20.1 and 25.4 against 10.8 and 15.3 inches respectively) and moderately heavy in July; but no injury from this excess is noticed by the Collector.
	Kissengunge	... 1,340	900	180	150	150	Aus paddy ... Marua ... Sama ... Maize ... Aus paddy ... Marua ... Sama ... Moong ...	12	14	.....
	Arrareah	... 1,044	600	150	130	110		10	14	Timely fall of rain benefited the crops. Had it not been for the floods in thana Motiari and a part of thana Rangunge, the outturn of this year's crops would have been a bumper one.	
MALDAH	District Total	... 4,956	3,000	1,030	903	940		10	More than 13	Just after sowing, the crops suffered to some extent from the rains being partial, and when sowing, the unusual and unimely inundations damaged them to a great extent. Jute and mulberry were not so much damaged as was originally expected.	
	Whole district	... 1,902	1,008	425	422	425	Bhadoi paddy ... Sharma ... Kheri ... Maize ... Jute ... Mulberry ...	6 6 6 6 15 15	6 6 6 6 8 8		
		1,902	1,008	425	422	425		8	9		
SONTHAL P.H. GUNNAHS.	Dumka	... 1,429	710	330	334	380	Gundli ... Maize ... Marua ... Kodo ... Maize ... Gondli ... Marua ... Maize ... Jati dhon ... Gondli ... Marua ... Maize ... Moong ... Aus rice ...	14	6	The excessive rain has done considerable injury to maize.	
	Deoghur	... 954	258	40	40	40		16	4	Ditto ditto.	
	Godda	... 967	676	200	135	125		10 to 12	8	Ditto ditto.	
Rajmahal	Rajmahal	... 740	555	104	104	104		12	13	Ditto ditto.	
	Pakur	... 683	511	170	170	170		8	6	The moong has been affected by excess of rain, and the aus rice destroyed by floods.	

CUTTACK	Jamtara	696	195	50	50	45	Maine ... Gondli ... Marua ... Kodo ...	17	12	The crops were damaged by excessive rain.
	District Total ...	5,469	2,905	924	853	873		13	8	
	Sudder	989	772	180	180	178	Beali jute and mandia paddy.	18	12	
	Banki ...	116	60	10	10	10	Beali and mandia	16	16	
	Kendrapara ...	1,424	641.5	101	97.25	98	Beali (early and late)	10	12	
	Jajpore ...	1,164	560	50	50	50	Beali paddy	18	9	
	Angol ... ...	.....	.....	.....	.....	.....	Mandia ...	20	16	
	District Total ...	3,633	1,973.5	341	337.25	336	Now Biri ...	20	16	
							Jute ...	12	12	
							Early paddy ...	.....	12	
BALASORE	Sudder ... Bhadrak ...	1,188 908	670 720	35.5 140	35 140	35.5 140	Maize ...	.....	4	
	District Total ...	2,066	1,399	175.5	175	175.5	Shama ...	.....	2	
POOREE	Sudder	1,530	720	74	74	64				
	Khurda ...	990	415	144	144	144	Beali rice ... Ditto ...	12 16	12	Deficient outturn is due to insufficient rain in August, i.e. at the time when the crops were in ear.
	District Total ...	2,520	1,135	218	218	208		14	12	
							Beali paddy ... Mandia paddy ...	14 14	10	Owing to excessive rain at the time of sowing and harrowing, this year's bhadoi crops could not be harrowed and weeded in proper time, and hence the outturn is short.
HATARIBAGH	Hazaribagh ...	4,575	2,593	883	882	882	Ditto ... Kulthi pulse ... Kali ausu ...	14	14	The Khurda crop had good weather for harvesting and did better than was expected.
	Giridih ...	2,446	1,280	282	282	282		14	13	
	District Total ...	7,021	3,873	1,164	1,164	1,164	Maize ... Marua ... Gondli ... Barai pulse ... Ghangri ... Urid pulse ... Sathi paddy ... Gora ... Diglio ... Maize ... Marua ... Gondli ... Bara ... Kodo ... Urid ... Sathi ... Gora ...	15	5	The excessive rainfall in ploughing, sowing and harvesting time has prejudicially affected the bhadoi crops, especially the maize. The excessive rainfall in the harvesting time further reduced the outturn in the Giridih sub-division.
								16	5	Rainfall was generally favourable.
HARDUGGA	Sudder	7,784	1,662	216	274	224	Maize ... Gondli ... Gora paddy ... Urid pulse ... Barai ... Marua ... Bodi ... Marze ... Sama ... Marua ... Kodo ... Urid ... Gondli ...	16	14	
	Palamow ...	4,250	2,000	430	426	400		13	14	
	District Total ...	11,034	3,632	616	700	624			12	
								More than	14	11	In the first report the outturn was estimated at 14 annas, but subsequently it was ascertained that only eight annas was gathered. This falling off is due to heavy rainfall in the beginning of the season.

1	2	3	4	5	6	7	8	9	10	11	12	
DISTRICT.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Name of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.	
MANSBHOOM	Sudder ...	3,344	1,300	150	120	150	Gora paddy ... Maize ... Kodo ... Gondli ... Kheri pulse ... Biri pulse ... Maize ... Marua ... Kodo ... Gondli ... Kheri pulse ... Biri pulse ...	Annas. 18 14 ... 16 ... 18 12 ... 16 ... 12	Annas. 16 8 12 12 12 6 12 12 12 8 12	Excess of rainfall at ploughing and sowing-time has injured the crops.	The yield would have been a bumper one but for insufficient rain during ripening time.	Excessive rain during the sowing-time affected the maize crop.
	Gobindapur ...	803	360	40	29	40						
	District Total ...	4,147	1,609	190	140	190	About 16	About 12				
SINGHBOOM	Kolhan ...	1,946	973	450	450	400	Gora paddy ... Maize ... Gondli ... Til ... Moong ... Biri ... Gora paddy ... Til (gingelly) ... Moong pulse ... Hiri ... Maize ... Gondli ... Kaon ... Kheri ... Aus paddy ... Maize ... Til (gingelly) ... Moong pulse ... Kaon ... Biri ... Gondli ...	18 ... 18 15	16 16 12 12 12 12 12 12 12 15 16 15 16 15 16 18 20			
	Porahat ...	660	247	61	61	50						
	Dhalbhoom ...	1,147	573	143	143	120						
District Total ...		3,753	1,793	654	654	579		17	17			
Total for all Bengal		152,840.61	86,968.88	23,765.14	23,059.85	22,763.64		19	10			

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 20th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
1	Burdwan Dec. 20, '90	Nil	Weather—fair and cold. <i>Amun</i> being harvested; outturn good. Sugarcane and <i>rubbi</i> crops doing well. Prices of common rice:— Srs. Sudder 18½ Culna 17 Cutwa 18½ } per rupee. Ranigunge 18 }
2	Bankura .. 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues; outturn average. <i>Ti</i> is being cut. Wheat, mustard, pulses, and sugarcane thriving. Common rice selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
3	Birbhum .. 20, '90	0·22	Weather—bright and clear. Rice harvest is being fast gathered in. Price of common rice from 19 to 22 seers per rupee.
4	Midnapur .. 20, '90	Nil	Weather—seasonable but not so cold as it should be. Paddy is being reaped; outturn expected to be 16 annas in the Tumlook subdivision and 12 annas in the Contai subdivision. <i>Rubbi</i> and indigo doing well. Prices of common rice:— Srs. Contai 18 Tumlook 17½ } per rupee. Ghatal 17 Sudder 18 }
5	Hooghly Serampore .. 20, '90	0·14 0·91	Prospects of crops continue good. Prices stationary. Prices of common rice:— Srs. Sudder 14 or 15 } per rupee. Serampore 14 } Jehanabad 16½ }
6	Howrah Uluberia .. 20, '90	0·16 0·19	Weather—seasonable. Reaping of <i>amun</i> crop continues. Harvest good. Price of common rice 14½ seers per rupee.
<i>Central Districts.</i>			
7	24-Perga. Dec. 20, '90	Nil	Weather—seasonable. Harvesting of winter rice proceeding; an excellent crop obtained almost everywhere. <i>Rubbi</i> crops progressing satisfactorily. Prices stationary.
8	Nuddea .. 20, '90	Nil	Weather—seasonable. Winter crops doing fairly well. Harvesting of <i>amun</i> rice nearly finished.
9	Khoolna .. 20, '90	Nil	Weather—cold. Harvesting of <i>amun</i> going on; prospects favourable except in flooded parts.
10	Jessore Narail .. 20, '90	0·03 0·05	Weather—seasonable. Harvesting of winter rice in progress. Prospects of spring crops continue favourable.
11	Moorsundabad .. 20, '90	Nil	Weather—cold. <i>Amun</i> is being harvested. Prospects of <i>rubbi</i> favourable. <i>Kalai</i> doing well.
12	Dinsgepur .. 20, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice unchanged.
13	Rajshahye .. 20, '90	Nil	Weather—seasonable: fair and cold. <i>Amun</i> and sugarcane being harvested. Mustard flowering. Ganja plants improving. Prospects of other winter crops good.
14	Rungpur .. 20, '90	Nil	Clear cold weather. Tobacco is being planted. Sugarcane is being cut. <i>Amun</i> is being reaped. Prospects generally good.
15	Bogra ..	...	Report not received.
16	Pubna .. 20, '90	Nil	Weather—cool. Prospects of crops generally good. Tobacco has mostly failed.
17	Darjeeling .. 20, '90	Nil	Weather—cold and misty. Winter rice is being harvested. <i>Rubbi</i> crops doing well. Prospects good.
18	Jalpigoree .. 20, '90	Nil	Weather—getting cool. Prospects of all crops favourable. Harvesting of <i>haimanti</i> paddy going on. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
<i>Eastern Districts.</i>			
DACA DIVN.	19 Dacca Dec. 20, '90	Nil	Weather—seasonably cold. Harvesting of <i>amun</i> continues. Sowing of winter crops completed. Price of common rice from 14 to 18 seers per rupee.
	20 Farreedpur „ 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy nearly finished. State of winter crops fair. Common rice selling at from 16 to 18 seers per rupee.
	21 Backergunge „ 20, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice selling at 16 seers per rupee.
	22 Mymensingh „ 20, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy continues. A flight of insects reported from the Netrakona subdivision. Prospects of crops continue to be good. Common rice selling at 16½ seers per rupee.
CHITTAGONG DIVN.	23 Chittagong „ 20, '90	Nil	Weather—seasonable. Cultivation of veg-table crop over. State and prospects of <i>amun</i> very good. Prices stationary.
	24 Noakhali „ 20, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues. <i>Rubbi</i> crops doing well. Good rice is being sold at 19 seers per rupee in the Fenny subdivision.
	25 Tipperat „ 20, '90	Nil	Weather—seasonable. <i>Amun</i> is being cut. Reaping will be over in a few days. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. 18, '90	Nil	Weather—seasonable: very cold throughout the week. Harvesting of cotton still continues. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIVN.	27 Purnia „ 20, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> going on. Prospects of <i>rubbi</i> crops continue good, but rain is wanted. Sugarcane is being pressed. Poppy growing well. Prices of food-grains show a tendency to fall.
	28 Gaya „ 20, '90	Nil	Weather—cold. Paddy harvest going on. <i>Rubbi</i> and poppy prospering. Prices of food-grains falling.
	29 Shahabad „ 20, '90	Nil	Weather—cool and bright. State of all crops good. Prices falling.
	30 Durbhang „ 20, '90	Nil	Weather—cool. Harvesting of rice in progress. <i>Rubbi</i> crops look promising, but a few showers of rain will be beneficial to them. Mustard in flower. Poppy and tobacco doing well. Common rice selling at from 14 to 19 seers per rupee.
BHAGULPORE DIVN.	31 Mozuferpur „ 20, '90	Nil	Weather—seasonably cold. Harvesting of paddy in progress. <i>Rubbi</i> crops look well. Prospects of poppy continue good.
	32 Saran „ 20, '90	Nil	Weather—seasonable. Paddy harvesting nearly finished. Prospects of all winter crops very good.
	33 Chumparan „ 20, '90	Nil	Weather—cold; a little foggy in the morning and evening. Harvesting of paddy progressing. <i>Rubbi</i> and poppy doing well. Poppy is being weeded and needs irrigation in places. Price of common rice falling owing to the new harvest.
	34 Monghyr „ 20, '90	Nil	Weather—cold and dry. Harvesting of winter rice vigorously going on. Prospects of <i>rubbi</i> and poppy continue favourable.
BHAUJHORA DIVN.	35 Bhagulpore „ 20, '90	Nil	Weather—seasonable. Harvesting of rice going on satisfactorily. Prospects of <i>rubbi</i> crops good.
	36 Purneah „ 20, '90	Nil	Weather—cold. Harvesting of <i>aghani</i> paddy still continues. <i>Rubbi</i> crops progressing well.
	37 Maldah „ 20, '90	Nil	Weather—seasonable. Harvesting of winter rice continues with favourable outturn. Gathering of <i>kalai</i> in progress. <i>Rubbi</i> crops and <i>boro</i> seedlings thriving. Common rice selling at from 14 to 20 seers per rupee.
	38 Sonthal Perghs. „ 20, '90	0·14	Weather—cool. Harvesting of rice crop in full progress; outturn will be above the average. Prospect of <i>rubbi</i> crops very promising.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	39 Cuttack Dec. 20, '90	Nil	Weather—seasonable. <i>Mung</i> in flower and doing well. Planting of tobacco continues. General prospects good.
	40 Pooree Khoorda „ 18, '90	0·20 1·39	Weather—seasonable. <i>Sarad</i> crop is being harvested. <i>Dalua</i> crop is being sown. Miscellaneous crops doing well. Price of common rice from 21 to 28 seer per rupee.
	41 Balasore Banpur „ 20, '90	0·46 1·17	Weather—still warm. Outturn of <i>sarad</i> or early winter rice may be taken at 13 annas.
CHOTA NAGPORE.			
CHOTA NAGPORE DIVN.	<i>South-West Frontier Agency.</i>		
	42 Hazaribagh Dec. 20, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues. Prospects of <i>rubbii</i> crops and poppy continue favourable. Prices stationary.
	43 Lohardugga „ 20, '90	Nil	Weather—cloudy. Harvesting of winter rice still continues. <i>Rubbii</i> seedlings suffering for want of rain. Prices steady.
	44 Singbham „ 20, '90	0·39	Weather—cloudy; warm for the season; slight rain on the 14th and 19th. All winter crops doing well; full outturn expected. Paddy is being harvested; outturn 16 annas everywhere except in thana Chakradharpur, where 8 to 12 annas crop expected. Prices stationary.
	45 Manbham Govindpore „ 20, '90	Nil 0·29	Weather—seasonable. Harvesting of paddy nearly over; outturn full. All other crops doing well. Common rice selling at from 22 to 27 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 23rd December, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM, (<i>Sorghum Vulgare.</i>)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
BENGAL.																
<i>Western Districts.</i>																
1	Burdwan	14 0	12 8	13 4	...	...	...	13 2	12 12	10 0	17 1	16 11	12 5	...	...	...
2	Bankura	14 0	13 12	13 12	17 8	17 0	14 0	18 8	17 8	15 0	21 4	20 0	18 0	...	...	...
3	Beerbhoom	16 0	16 8	15 0	...	...	...	16 0	13 8	13 0	19 8	18 0	15 0	...	...	...
4	Midnapore	10 8	10 8	12 8	...	...	...	15 0	13 0	11 0	20 0	18 0	16 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...
6	Howrah	...	...	...	...	...	...	11 0	10 0	9 8	16 0	14 8	12 8	...	...	...
<i>Central Districts.</i>																
7	Calcutta	12 14	12 14	13 3	18 11	18 1	16 11	8 15	8 12	8 3	14 4	13 1	13 5	...	16	14 12
8	24-Pergunnahs	13 0	13 0	13 5	17 0	17 0	16 0	8 0	8 0	7 8	16 0	15 0	15 0	...	...	...
9	Nuddea	15 4	15 4	15 0	16 0	16 0	17 12	11 13½	11 13½	10 10½	15 9½	15 9½	12 6	...	...	...
10	Khoolna	...	...	...	...	...	...	12 0	12 8	11 8	13 0	14 0	14 0	...	...	...
11	Jessore	12 12	12 8	13 5	...	...	...	11 8	11 8	9 0	14 8	14 8	16 0	...	...	...
12	Moorshedabad	15 0	16 0	16 0	...	...	...	10 0	10 0	10 0	18 6	16 0	14 0	...	...	...
13	Dinagepore	12 0	14 11	17 8	20 0	20 0	14 8	15 8	14 4	15 8	19 4	18 0	19 0	...	...	...
14	Rajshahye	15 12	15 12	15 0	24 0	24 0	19 8	12 0	12 12	10 8	15 12	16 2	13 8	...	...	...
15	Rungpore	13 5	13 5	13 5	...	...	...	9 6	9 6	8 8	14 8	14 8	12 12	...	...	...
16	Bogra	15 0	15 0	15 0	...	...	...	12 0	13 8	12 0	18 0	18 0	18 0	...	...	...
17	Pubna	18 0	18 0	15 8	...	...	...	7 6	7 6	7 6	16 8	15 12	14 4	...	...	...
18	Darjeeling	10 8	8 0	11 0	12 0	10 0	10 0	5 0	5 0	5 0	13 0	15 0	12 0	...	...	...
19	Julpigoree	12 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	17 0	...	...	...
<i>Eastern Districts.</i>																
20	Ibaco	12 0	12 0	13 0	14 0	14 0	16 0	14 0	14 0	12 0	15 0	15 0	14 0	...	...	...
21	Furreedpore	16 0	16 0	13 0	20 0	25 0	12 0	12 0	12 0	10 0	14 0	14 0	15 0	...	...	...
22	Backergunge	...	...	...	...	...	...	14 8	12 4	15 4	16 10	18 5	16 2	...	...	...
23	Mymensingh	10 8	11 4	10 0	...	...	...	10 8	10 0	8 0	16 0	16 0	13 14	...	...	...

A In subdivisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Rameegunge 10½ seers.

B At Rampore Haat retail price of salt 9½ seers per rupee.

C In subdivisions retail prices of salt per rupee are:—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.

D At Jehanabad retail price of salt 10 seers and 10 chittacks per rupee.

E In subdivisions retail prices of salt per rupee are:—Baraset 10 seers, Basirhat 10 seers, Diamond Harbour (Kulpihat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupee are:—Koochha 10 seers, Meherpore 11 seers, Choosadanga 10 seers, and Ranaghat 10 seers.

G In subdivisions retail prices of salt per rupee are:—Satkhira 10 seers and Bagirhat 8 seers.

H In subdivisions retail prices of salt per rupee are:—Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

SEERS OF 80 TOLAHS.

Present return.	BABA OR CUMBU. <i>(Pennisetum typho-</i> <i>idium.)</i>
Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	MARIA OR RAGI. <i>(Eleusine Coracana.)</i>
Next preceding re- turn.	
Corresponding re- turn of last year.	

KANGNI OR KAKUN, ITALIAN MILLET. (<i>Saccharum italicum</i>)	GRAM, CHHOA, OR SINAGA. (<i>Cicer arietinum</i>)
Present return.	Next preceding re- turn.
Present return.	Next preceding re- turn.

S. Ch.																				
9 9	9 8	15 3	17 5	16 11	15 15															
8 0	7 0	5 4	20 0	19 0	16 0															
..	22 18	22 12	18 14															
..	13 0	13 0	12 0															
..	16 8	16 8	16 0															
..	22 8	22 8	20 0															
..	15 0	13 8	14 8															
..	21 0	19 8	18 0															
..	12 4	12 4	13 5															
..	13 8	15 0	15 0															
..	18 0	18 0	15 4															
..	12 0	12 0	10 0															
..	14 0	14 0	13 0															

..	..	..	16 0	16 0	13 0															
..	..	..	14 0	16 0	12 0															
..	..	..	16 10	15 4	15 0															
..	..	..	12 12	15 0	13 0															

Head-quarter Station Bazars of the Districts of Bengal on the 15th December 1890.

												WHOLESALE PRICES PER MAUND OF 40 SEERS.														
INDIAN-CORN OR MAIZE (<i>Zea Mays.</i>)				ARHAR OR THUR, CADJAN PEA. (<i>Cajanus indicus.</i>)				FIREWOOD.				SALT.			SALT.			DISTRICTS.								
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next return.	Corresponding return of last year.	Present return.	Next return.	Corresponding return of last year.	Present return.	Next return.	Corresponding return of last year.	Present return.	Next return.	Corresponding return of last year.	Present return.	Next return.	Corresponding return of last year.	DISTRICTS.								
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.						
30 0	30 0	26 0	15 0	16 0	15 8	230	0 280	0 280	0 10	8 10	8 10	0	3 10	0	3 10	0	3 10	0	3 15	0	Burdwan.					
..	12 0	12 0	10 8	160	0 160	0 160	0 10	8 10	8 10	0	3 10	0	3 10	0	3 10	0	3 10	0	Bankoora.					
..	12 0	11 8	13 0	110	0 110	0 160	0 10	8 10	8 10	3	3 13	0	3 13	0	3 13	0	3 15	0	Midnapore.					
..	11 0	11 0	11 0	120	0 120	0 120	0 9	0 9	0 9	0	3 12	0	3 12	0	3 11	6	Hooghly.							
..	11 4	11 4	13 0	100	0 100	0 100	0 10	8 10	8 9	2	3 8	0	3 8	0	3 8	0	3 14	0	Howrah.					
<i>BENGAL.</i>																										
<i>Western Districts.</i>																										
17 15	16 14	18 5	15 12	14 9	16 10	90	0 90	0 100	0 10	12 10	10 12	10 12	10 1	3 6	8	3 6	5	3 11	1	Calcutta.						
..	15 0	14 8	17 0	100	0 100	0 100	0 10	12 10	10 12	10 12	10 0	3 6	6	3 6	6	3 10	0	24-Pergunnahs.						
..	16 0	16 0	16 0	...	...	...	9	18	9 13	9 2	3 11	0	3 12	0	3 14	0	Nuddea.							
..	160	0 160	0 160	0 8	0 8	0 8	0	4 2	0	4 0	0	4 4	0	Khoolna.							
..	16 0	16 0	16 0	160	0 160	0 160	0 9	2	9 2	9 2	4 0	0	4 0	0	4 0	0	Jessore.							
..	16 0	16 0	18 0	200	0 200	0 220	0 11	0 11	0 11	0	3 10	0	3 10	0	3 8	0	Moorshedabad.							
..	15 8	16 4	...	160	0 160	0 160	0 10	0 10	0 10	0	9 8	4 0	0	4 0	0	4 0	0	Dinagepore.						
..	18 4	17 8	17 0	240	0 240	0 240	0 9	9	9 9	9 9	9 0	3 13	4	3 13	4	4 5	4	Rajshahye.						
..	10 10	10 10	10 5	100	0 100	0 100	0 9	6	9 6	8 14	4 4	0	4 4	0	4 8	0	Rungpore.							
..	90	0 90	0 90	0 9	0	9 0	8 13	4 0	0	4 0	0	4 2	8	Bogra.							
..	17 4	17 4	17 4	200	0 200	0 200	0 8	15	8 15	8 11-2	3 14	0	3 14	0	4 1	6	Pubna.							
20 0	22 0	20 0	8 0	10 0	8 0	120	0 120	0 120	0 8	0	8 0	8 0	5 0	0	5 0	0	5 0	0	Darjeeling.							
..	10 0	12 0	12 0	200	0 200	0 128	0 10	9	10 0	9 0	4 0	0	4 0	0	4 2	0	Julnpigoree.							
<i>Central Districts.</i>																										
..	14 0	16 0	14 0	120	0 120	0 160	0 9	12	9 12	9 4	4 0	0	4 0	0	4 4	0	Dacca.							
19 0	16 0	15 0	16 0	13 0	10 0	120	0 80	0 120	0 9	12	10 0	9 0	4 0	0	4 0	0	4 4	0	Furreedpore.							
..	13 0	12 12	11 4	20	0 120	0 120	0 9	0	9 0	10 0	3 12	0	3 12	0	4 0	0	Backergunge.							
..	10 0	10 0	14 0	...	...	...	10	0	10 0	8 8	4 0	0	4 0	0	4 10	0	Mymensingh.							

I In subdivisions retail prices of salt per rupee are :— Lalbagh 10½ seers, Kandi 11½ seers, and Jungipore 10 seers.

J At Thakurgaon retail price of salt 8 seers per rupee.

K In subdivisions retail prices of salt per rupee are :— Nattore 9 seers, and Nowgong 9 seers!9 chittacks.

L In subdivisions retail prices of salt per rupee are :— Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers.

M At Serijunge retail price of salt 10 seers per rupee.

N At Siliguri wholesale price of salt Rs. 4-4 per maund.

O At Fallacotta in the Alipore subdivision retail price of salt 8 seers per rupee.

P In subdivisions retail prices of salt per rupee are :— Manickgunge 9 seers, Moonsheegunge 8½ seers, and Naraingunge 10 seers.

Q In subdivisions retail prices of salt per rupee are :— Perozepore 9 seers, Patuakhali 9 seers, and Bhola 8 seers.

R In subdivisions retail prices of salt per rupee are :— Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																			
		WHEAT.				BARLEY.				RICE, BEST SORT.				RICE, COMMON.				JOWAR OR CHOLUM. (<i>Sorghum Vulgare.</i>)			
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.		
<i>Eastern Districts—concluded.</i>																					
23	Chittagong	12 0	11 0	11 0	...	...	...	11 0	11 0	8 0	16 4	15 14	16 5	...	...	...	...	...	...
24	Noakholly	...	...	...	...	...	...	16 0	15 0	11 0	18 0	17 0	12 0	...	...	...	...	...	...
25	Tipperah	10 0	8 0	12 5	...	...	...	11 7	11 7	10 0	18 8	16 0	17 12	...	...	...	...	...	...
26	Chittagong Hill Tracts.	...	...	...	...	...	...	10 5	10 5	10 0	11 6	11 6	13 5	...	...	...	...	...	...
<i>BEHAR.</i>																					
27	Patna	...	Red. White. 17 4 17 8 17 8 15 4 15 8 15 4	19 8	19 8	24 0	11 0	11 0	10 8	19 8	18 0	18 6	...	...	...	...	24 0	...	...
28	Gya	...		15 8	15 8	17 0	20 0	20 0	20 0	10 0	10 0	10 0	20 0	18 0	18 0	...	...	...	...
29	Shahabad	...	15 8	15 8	16 0	16 0	16 0	21 0	9 0	9 0	9 0	17 0	16 8	16 8	20 0	20 0	22 8	...	...
30	Durbhunga	...	16 8	13 3	16 0	18 11	17 9	20 8	13 3	13 3	12 8	18 12	18 0	20 0	...	...	...	...	...
31	Mozufferpore	...	17 0	17 0	13 0	20 0	18 0	18 0	12 0	10 0	10 8	18 0	17 0	19 0	...	...	...	...	...
32	Sarun	...	16 8	14 8	15 12	19 8	16 4	21 0	8 12	8 8	8 8	15 8	14 12	14 14	...	...	...	...	...
33	Chumperun	...	18 0	18 0	12 0	22 0	22 0	20 0	9 0	9 0	9 0	18 0	18 0	19 0	...	...	...	...	...
34	Monghyr	...	14 12	16 12	17 13	16 13	17 13	15 12	13 2	12 0	12 1	17 14	14 11	18 14	...	...	...	...	...
35	Bhagulpore	...	16 6	16 6	16 6	20 3	20 3	20 3	12 10	12 10	16 6	15 2	16 0	...	...	...	...	...	...
36	Purneah	...	17 0	16 0	20 0	...	...	...	20 0	16 0	20 0	22 0	18 0	22 0	...	...	...	...	...
37	Maldah	...	14 8	15 8	18 0	...	...	...	12 0	11 0	11 0	16 8	16 0	14 8	...	...	...	...	...
38	Sonthal Perghs.	14 0	14 0	15 0	...	...	...	13 0	13 0	12 0	20 0	21 0	16 0	...	...	...	...	...	...
<i>ORISSA.</i>																					
39	Cuttack	...	13 2	11 13	13 2	...	...	...	10 8	10 8	10 8	21 0	21 0	18 6	...	...	...	...	...
40	Pooree	...	13 2	14 7	13 2	...	...	...	14 7	14 7	14 7	21 0	21 0	22 10	...	...	...	...	...
41	Balasore	...	15 0	15 0	15 0	13 0	13 0	13 0	13 0	13 0	12 0	22 0	22 0	17 0	...	...	...	...	...
<i>CHOTA NAGPORE.</i>																					
<i>South-West Frontier Agency.</i>																					
42	Hazaribagh	...	14 0	14 0	13 0	19 0	15 0	11 0	11 0	10 0	10 0	20 0	20 0	20 0	...	...	...	...	...
43	Lohardugga	...	Red. White. 14 8 14 0 12 0 8 0 7 12 10 8	Not available	13 0	17 0	New. Old. 14 0	20 0	17 0	21 0	21 0 22 0	New (ordinary). (Coarse). 23 0 21 12 24 0	...	...	...	...	...	...	...
44	Singbham	...			10 0	16 0	20 0	20 0	12 0	14 0	16 0	20 0	20 0	20 0	...	...	...	...	...
45	Manbham	...	13 5	13 5	13 5	...	28 0	...	14 0	13 0	12 8	22 0	23 0	21 0	...	...	...	...	...

S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Feni Hat retail price of salt 8½ seers per rupee.
U In subdivisions retail prices of salt per rupee are:—Buxar 10½ seers, Sasseram 10½ seers, and Bhabua 9½ seers.
V At Somastipore retail price of salt 11 seers per rupee.
W In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.
X At Bettiah retail price of salt 10 seers per rupee.

SEERS OF 80 TOLAHs.

KARUNI OR KARUN,
ITALIAN MILITANT,
(Staristi italici.)

GRAM, CHANA,
CHHOOL, KADALAY
OR SHNAGA.
(Cogn. aristocratic.)

Present return.	re-	return.	Present return.	re-	turn of last year.
Next preceding return.	ro-	turn of last year.	Present return.	re-	turn of last year.
Corresponding turn of last year.	ro-	return.	Next preceding return.	re-	turn of last year.
S. Ch.					
17 0 19 8 19 8 19 12 19 8 23 0					
15 0 15 0 15 0 19 0 18 0 20 0					
... 19 0 19 0 22 0					
... 19 12 18 0 27 0					
... 20 0 20 0 20 0					
14 0 14 0 14 0 18 8 17 8 21 0					
... 19 0 19 0 18 0					
... 16 13 15 12 22					
... 20 3 20 3 20 3					
... 17 0 18 0 16 0					
... 19 0 20 0 17 0					
... 17 0 17 0 16 0					
... 18 0 17 0 16					
... 15 0 14 8 13 1					
... 16 0 16 0 10					
... 15 12 15 0 15					

...	...	...	14 7 14 7 15		
...	...	...	15 12 15 12 15 1		
...	...	...	14 0 14 0 14		
...	...	...	15 12 15 0 15		

Station Bazars of the Districts of Bengal on the 15th December 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.							
INDIAN CORN OR MAIZE. (<i>Zea Mays.</i>)			ARHAR OR THUR. CADJAN PEA. (<i>Cajanus indicus.</i>)			FIREWOOD.			SALT.			SALT.			DISTRICTS.				
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.	
<i>Eastern Districts—concluded.</i>																			
S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
..	..	..	..	..	..	110	0	110	0	100	0	10	0	9	0	3 11 0	3 14 0	4 0 0
..	..	.	8 0	8 0	7 0	..	..	..	..	9 0	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	4 0 0	Chittagong.
..	..	..	10 0	10 0	8 6	..	..	..	..	10 0	10 0	8 14	4 0 0	4 0 0	4 0 0	4 8 0	Tipperah.	
..	..	..	..	..	..	320	0	320	0	320	0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
<i>BEHAR.</i>																			
23	8	19	8	24	0	...	16	8	22	8	130	0	120	0	130	0	9 8	9 8	3 9 6
..	..	..	..	17	0	17	0	18	0	16	0	160	0	200	0	10 0	10 0	4 2 0
..	..	..	..	17	0	18	0	20	0	160	0	160	0	140	0	10 0	10 0	3 15 0
22	0	20	14	25	0	17	9	17	0	20	0	160	0	160	0	11 0	11 0	3 8 0	
21	0	19	0	22	0	18	0	17	0	22	0	160	0	160	0	11 10	10 8	3 12 0	
19	8	18	0	22	0	16	8	16	8	20	8	180	0	180	0	160	0	10 4	
22	0	22	0	24	0	17	0	17	0	17	0	160	0	160	0	10 0	10 0	3 13 0	
18	15	21	0	25	4	15	12	16	12	18	14	165	0	168	0	147	0	10 8	
21	7	21	7	24	0	17	11	17	11	17	10	151	8	151	8	10 1	10 1	3 12 0	
..	..	..	..	13	0	14	0	15	0	..	..	131	0	130	0	9 0	9 0	4 7 0
..	..	..	..	..	..	..	..	..	..	..	..	120	0	120	0	9 0	9 0	4 7 0
24	0	24	0	27	0	20	0	20	0	19	0	200	0	200	0	9 0	9 0	4 0 0	
																		Sonthal Perghs.	
<i>ORISSA.</i>																			
..	..	..	..	17	1	18	0	17	1	80	0	80	0	80	0	11 0	11 0	3 12 0
..	..	..	..	17	12	17	12	15	12	80	0	80	0	80	0	9 13	9 13	3 12 0
..	..	..	..	..	..	..	..	..	..	..	..	160	0	160	0	11 0	11 0	3 12 0
																		Pooree.	
																		Balasore.	
<i>CHOTA NAGPUR.</i>																			
<i>South-West Frontier Agency.</i>																			
24	0	25	0	28	0	19	0	20	0	19	0	210	0	24	0	32	0	9 0	
																		Hazaribagh.	
28	0	28	8	35	0	24	0	24	0	14	12	15	0	40	0	140	0	9 0	
20	0	32	0	32	0	21	0	24	0	12	0	240	0	240	0	200	0	8 0	
26	0	26	0	32	0	18	0	16	0	16	0	200	0	200	0	9 14	10 0	9 2	
																		Singbhum.	
																		Manbhum.	

Y In subdivisions retail prices of salt per rupee are :—Begusserai 9½ seers and Jamui 9 seers.

Z At Kissengunge retail price of salt 8 seers per rupee.

Z1 In Khoorda subdivision retail price of salt 10½ seers per rupee.

Z2 At Bhadruck retail price of salt 9 seers per rupee.

Z3 At Daltongunge (Palamew subdivision) retail price of salt 9 seers per rupee.

Z4 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
1	Calcutta ...	2 13 2	2 13 4	2 12 3	1 14 2	1 15 3	2 1 11	4 3 5	4 4 9	4 10 2	2 9 3	2 12 10	2 12 0
2	Serajgunge ...	1 12 0	1 12 0	2 8 0	...	...	...	4 12 0	4 10 0	5 8 0	2 8 0	3 4 0	3 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	2 7 0	2 12 0	2 12 0	3 4 0	2 10 0	2 10 0	2 12 0
4	Naraingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	3 4 0	2 12 0	2 12 0	3 0 0
5	Chittagong	3 4 0	3 8 0	3 8 0	...	...	...	3 10 0	3 8 0	4 8 0	2 6 0	2 8 0	2 8 0
6	Patna ...	2 5 3 Red. { 2 9 0	2 4 0 White. 2 8 0	2 4 0 2 9 0	2 0 0 { 2 0 0	2 0 0	1 9 6	3 8 0	3 8 0	3 12 0	2 0 0	2 2 6	2 0 0
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 13 0	1 13 0	2 4 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	1 14 3	1 15 0
9	Cuttack ...	3 0 0	3 4 0	3 0 0	...	...	...	3 10 0	3 10 0	3 0 0	1 11 0	1 11 0	2 3 0

CALCUTTA,
The 23rd December, 1890.

2616a

OF 40 SEERS.

MARUA OR RAGL (<i>Eleusine Corocana</i> .)				KANGNI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)			
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 10	9 3	11 12	6 0
...
...	...	1 7 0	2 5	0 2	5 0 2	0 0	0 0
...
...
...

26166

in the undermentioned Marts of Bengal on the 15th December, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arietinum.</i>)				INDIAN-CORN OR MAIZE. (<i>Zea Mays.</i>)				ARHAR OR THUR, CADJAN PEA. (<i>Cajanus indicus.</i>)				FIREWOOD.				SALT.				
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	MARTS.		
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.			
2 0 10	2 2 3 2 4 6	1 15 7 2 1 9 1 14 7 2 4 6	2 7 8 2 2 7	0 5 9 0 5 9 0 5 6 3 6 8 3 6 5 3 11 1	Calcutta.	Serajgunge.	
2 8 0	2 9 0 3 4 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Dacca.
3 4 0	3 4 0 3 0 0	...	...	...	3 4 0 3 4 0 3 4 0	0 0 8 0 0 8 0 0 8 0	0 0 8 0 0 8 0 0 8 0	3 11 0 3 11 0 3 11 0 3 11 0 3 11 0 3 11 0 3 11 0	3 11 0 3 11 0 3 11 0 3 11 0 3 11 0 3 11 0 3 11 0 3 11 0	Narsingunge.	...	...	...	...	...	...	...	...
3 2 0	3 0 0 3 0 0	0 5 4 0 5 4 0 5 4 0 7 0	3 11 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0	3 11 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0	Chittagong.
1 14 6	2 0 0 1 10 6	1 10 6 2 0 0 1 9 6	...	2 6 0 1 12 0	0 0 5 0 0 5 0 0 5 0	0 0 5 0 0 5 0 0 5 0	3 9 6 3 9 6 3 9 6 3 9 6	3 9 6 3 9 6 3 9 6 3 9 6 3 9 6 3 9 6 3 9 6 3 9 6 3 9 6	Patna.	...	...	...	...	...	...	...	...	...
2 12 0	2 12 0 2 12 0	0 4 6 0 4 6 0 4 6 0 5 0	3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0	3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0 3 14 0	Balasore.
2 10 0	2 15 0 2 11 0	2 2 0 2 2 0 2 2 0	0 8 0 0 8 0 0 8 0	0 8 0 0 8 0 0 8 0	3 12 0 3 12 0 3 12 0 3 12 0	3 12 0 3 12 0 3 12 0 3 12 0 3 12 0 3 12 0 3 12 0 3 12 0 3 12 0 3 12 0	Pooree.	Cuttack.	

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 15th December.	Sunday, 16th December.	Monday, 17th December.	Tuesday, 18th December.	Wednesday, 19th December.	Thursday, 20th December.	Friday, 21st December.	Number of rainy days.	Rainfall of week.				
ORISSA	Pooree	Pooree	0'02	0'45	.....	.....	.....	.....	2	0'47	0'47	0'66	70'44	50'90	
		Khurdah	0'95	0'44	0'40	.....	.....	.....	2	1'39	1'39	0'34	66'55	56'05	
		Banpur	0'77	0'40	.....	.....	.....	.....	2	1'17	1'17	0'81	63'02	50'04	
		False Point	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'73	66'10	64'14	
		Gos	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65'96	?	
		Satpara	0'65	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75'90	?	
Cuttack	Cuttack	Pipili	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75'90	?	
		Jagatsingapore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'33	63'67	40'05	
		Banki	0'95	6'75	.....	.....	.....	.....	2	1'70	1'70	0'45	67'79	48'33	
		Cuttack	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'24	82'14	53'89	
		Kendrapara	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'45	53'15	52'65	
		Jajpore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'64	53'15	53'72	
Balasore	Balasore	Dharmasala	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53'18	?	
		Salipore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62'15	?	
		Chandbuli	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'49	52'06	52'84	
		Bhuddruck	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'38	53'23	51'18	
		Sorah	0'46	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'08	60'84	50'73	
		Jellasa	0'70	.....	.....	.....	.....	.....	1	0'70	1'00	0'03	66'83	61'10	
SOUTH-WEST BENGAL	Midnapore	Baripodah	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'05	62'96	53'46	
		Contai	0'08	.....	.....	.....	.....	.....	1	0'98	0'98	0'35	67'81	60'90	
		Saugor Island	0'69	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'67	69'12	66'75	
		Tumlook	.....	.....	.....	.....	.....	.....	1	0'60	0'60	0'23	58'59	56'92	
		Midnapore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'09	47'47	48'03	
		Ghatal	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'18	44'61	53'86	
24-Pergunnah	Diamond Harbour	Kubrakhaty	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'29	?	
		Garbeta	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46'23	?	
		Canning Town	0'02	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'22	62'13	57'73	
		Alipore Jail	.....	.....	.....	.....	.....	.....	1	0'02	0'02	?	66'71	?	
		Barackpore	0'40	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'29	61'96	54'86	
		Dum-Dum	.....	.....	.....	.....	.....	.....	1	0'40	0'40	0'24	51'31	44'80	
Howrah	Howrah	Baraset	0'57	.....	.....	.....	.....	.....	1	0'57	0'57	0'23	55'41	49'26	
		Buseerhat	0'18	.....	.....	.....	.....	.....	1	0'18	0'18	0'21	58'85	54'28	
		Howrah	0'16	.....	.....	.....	.....	.....	1	0'16	0'16	0'25	51'50	50'35	
		Moheseka (Oalobertia)	0'19	.....	.....	.....	.....	.....	1	0'19	0'19	0'22	59'76	51'39	
		Serampore	0'91	.....	.....	.....	.....	.....	1	0'91	0'91	0'23	55'21	49'64	
		Hoochibagan	0'14	.....	.....	.....	.....	.....	1	0'14	0'14	0'22	52'19	47'63	
Burdwan	Burdwan	Jehanabad	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'12	51'67	54'07	
		Culna	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'18	54'31	43'81	
		Burdwan	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'16	65'33	47'63	
		Cutwa	0'21	.....	.....	.....	.....	.....	1	0'21	0'21	0'6	64'57	47'25	
		Raneeungunge	0'18	.....	.....	.....	.....	.....	1	0'18	0'18	0'07	60'72	48'74	
		Manikur	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48'21	?	
Bankura	Bankura	Bankura	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'14	57'76	51'05	
		Bishenpore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'13	50'95	51'82	
		Maijara	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'11	59'28	48'22	
		Khatra	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'26	40'06	56'61	
		Indas	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59'97	?	
		Kotalpore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66'94	?	
Nuddea	Nuddea	Anda	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55'11	?	
		Gangajalghati	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63'75	?	
		Raiopore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53'29	?	
		Vonamukhi	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52'74	?	
		Bh. Scory	0'22	.....	.....	.....	.....	.....	1	0'22	0'22	0'08	62'50	53'19	
		Hilaiapore	0'11	.....	.....	.....	.....	.....	1	0'11	0'11	0'11	60'42	53'76	
Khoolna	Rampore Haq	Bolpore	0'11	.....	.....	.....	.....	.....	1	0'11	0'11	0'16	72'66	50'91	
		Murarai	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57'53	?	
		Ranaghata	0'07	.....	.....	.....	.....	.....	1	0'07	0'07	0'15	55'53	46'67	
		Kishnaghata	0'07	.....	.....	.....	.....	.....	1	0'07	0'07	0'02	61'73	45'37	
		Chocadanga	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'09	47'08	50'65	
		Meherpore	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'10	58'86	47'10	
Jessore	Jessore	Koosheta	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'08	52'09	53'83	
		Satkhiria	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'33	57'61	55'47	
		Hagirhat	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'26	62'51	60'80	
		Khoolna	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'27	52'88	54'20	
		Nakipur	0'66	.....	.....	.....	.....	.....	1	0'66	0'66	?	76'68	?	
		Rampal	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65'78	?	
Moorsheadabad	Moorsheadabad	Narail	0'05	.....	.....	.....	.....	.....	1	0'05	0'05	0'19	51'50	45'41	
		Jessore	0'03	.....	.....	.....	.....	.....	1	0'03	0'03	0'16	53'32	53'07	
		Jhenidah	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'15	54'16	52'94	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890 -contd.

Meteorological Division.	District.	Station,	RAINFALL.						TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.	
			Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Number of rainy days.	Rainfall week.				
EAST BENGAL -concl.	Noakhally ..	Gourauddi ..	....	....	....	....	....	....	Nil Nil	Nil	?	42'60	?	?	?
		Bauphal ..	....	....	....	....	....	....	Nil Nil	Nil	?	73'26	?	?	?
Furreedpore ..	Noakhally ..	Fenny ..	....	....	....	....	....	....	Nil Nil	Nil	0'58	92'54	107'16	105'73	?
	Harishpore ..	Harishpore ..	....	....	....	....	....	....	Nil Nil	Nil	0'98	103'40	105'73	?	?
Dacca ..	Bamganj ..	Madriopore ..	....	....	....	....	....	....	Nil Nil	0'80	?	170'31	?	?	?
	Purseedpore ..	Purseedpore ..	....	....	....	....	....	....	Nil Nil	Nil	?	65'28	?	?	?
Hill Tippurul	Dacca ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'14	61'91	65'26	67'36	?
	Tippur ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'11	49'45	57'36	55'49	?
Mymensingh ..	Dacca ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'08	44'80	44'80	44'80	?
	Nasirnagar ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'30	57'73	60'66	60'66	?
NORTH BENGAL.	Shorepore ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'16	54'58	58'16	58'16	?
	Hogra ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'26	69'71	61'49	61'49	?
Rajshahi ..	Shorepore ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	59'71	49'50	49'50	?
	Shorepore ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	?	66'26	?	?	?
Maldah ..	Shorepore ..	Manikgunge ..	....	....	....	....	....	....	Nil Nil	Nil	0'36	61'00	61'00	61'00	?
	Maldah ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'44	67'24	75'38	75'38	?
Rungpore ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'35	56'78	74'05	74'05	?
	Rungpore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'30	54'94	61'17	61'17	?
Jalpigoree ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'18	77'86	57'95	57'95	?
	Jalpigoree ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'12	68'79	53'88	53'88	?
Cooch Behar ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'07	78'92	60'51	60'51	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'20	91'46	55'48	55'48	?
Darjeeling Hill.	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	72'29	52'50	52'50	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	88'84	54'29	54'29	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'15	66'15	52'14	52'14	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	52'38	?	?	?
Durbhanga ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	48'04	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'13	64'65	51'12	51'12	?
Mossor ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'04	59'62	50'17	50'17	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	84'40	?	?	?
Mossor ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'24	63'61	52'26	52'26	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	107'94	?	?	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'12	123'00	62'21	62'21	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'08	96'06	74'14	74'14	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'17	95'59	72'83	72'83	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'21	111'23	84'08	84'08	?
Mossor ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	97'53	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	156'26	116'83	116'83	?
Cooch Behar ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	187'47	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	147'30	?	?	?
Darjeeling Hill.	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	115'70	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	182'64	?	?	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'22	128'95	94'69	94'69	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'11	169'37	118'10	118'10	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'19	146'36	103'11	103'11	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'13	171'01	112'66	112'66	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'47	211'33	191'50	191'50	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	178'30	102'41	102'41	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'26	150'24	107'54	107'54	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'10	123'00	77'30	77'30	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'31	193'09	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	105'38	89'78	89'78	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'08	83'78	63'24	63'24	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'15	89'86	61'14	61'14	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	100'45	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	63'93	?	?	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'05	61'61	49'07	49'07	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'09	63'21	47'71	47'71	?
North Bhagul-	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	40'30	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'07	51'70	42'49	42'49	?
Durbhanga ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'12	58'66	45'27	45'27	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'06	62'61	44'29	44'29	?
Mossop ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	52'58	?	?	?
	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	?	50'42	?	?	?
Mossop ..	Shorepore ..	Shorepore ..	....	....	....	....	....	....	Nil Nil	Nil	0'08	62'96	42'96	42'96	?
	Shorepore ..	Shorepore ..													

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890—concl'd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Number of rainy days.	Rainfall week.				
NORTH BEHAR —concluded.	Champaran...	Motihari	*	Nil	Nil	Nil	0'13	72'06	44'14	
		Bettiah ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'19	64'89	48'01	
		Bogha ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?	
		Burhurwa ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58'36	?	
SOUTH BEHAR	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'17	52'67	42'62	
		Sewan ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'11	59'84	43'21	
		Chuprah ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'14	48'27	40'12	
		Buxar ...	0'04	.....	.....	.....	.....	1	0'04	0'94	0'55	43'18	39'85	
Gya	Shahabad ...	Dehree ...	0'04	.....	.....	.....	.....	Nil	Nil	Nil	0'23	41'11	40'69	
		Bhaboah ...	0'08	.....	.....	.....	.....	1	0'08	0'08	0'24	44'27	40'16	
		Sasserau ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'17	66'96	39'65	
		Arrah ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36'07	?	
Gya	Aurungabad ...	Mohaniah ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?	
		Gya ...	0'08	.....	.....	.....	.....	1	0'08	0'08	0'17	60'12	42'00	
		Nowadah ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'12	54'84	39'29	
		Jehanabad ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'16	53'35	40'39	
Patna	Patna ...	Arcal ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55'43	?	
		Daudnagar ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29'85	?	
		Sherrghati ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36'81	?	
		Rajauli ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45'60	?	
Monghyr	Monghyr ...	PakriBarawan ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54'24	?	
		Bagooserai ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'12	50'02	41'37	
		Monghyr ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'12	52'13	49'92	
		Jamut ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'10	46'95	41'28	
South Bhagal-pore.	Rhesgulpoore ...	Gogra ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'11	43'25	39'31	
		Sheikhpura ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58'35	?	
		Baoka ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'24	?	
		Kilyng ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62'96	?	
Sonthal Per-gunnahs.	Bongaon ...	Bongaon ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?	
		Rajnehal ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'06	56'86	51'86	
		Godda ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'10	59'76	43'78	
		Pakour ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'07	74'16	54'99	
CHUTTA NAG- F.U.B.	Hazaribagh ...	Nya Doonka ...	0'14	.....	.....	.....	.....	1	0'14	0'14	0'10	74'36	54'62	
		Deognur ...	0'08	.....	.....	.....	.....	1	0'08	0'08	0'06	49'51	49'57	
		Jamesra ...	0'15	.....	.....	.....	.....	1	0'16	0'16	0'11	76'59	47'78	
		Mohasama ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48'81	?	
Lohardugga ...	Lohardugga ...	Nanhat ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32'28	?	
		Pachamba ... (Giridi).	0'02	.....	.....	.....	.....	1	0'02	0'02	0'09	55'37	46'89	
		Hazaribagh ...	0'05	.....	.....	.....	.....	1	0'05	0'05	0'20	50'02	49'32	
		Semtagurab ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'31	38'94	45'68	
Singbhamo ...	Singbhamo ...	Mahudi Hills ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'20	43'02	48'34	
		Jhoomra Hills ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'15	56'80	59'75	
		Barhi ...	0'13	.....	.....	.....	.....	1	0'13	0'13	?	50'37	?	
		Chatra ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47'08	?	
Manbhamo ...	Manbhamo ...	Karaydeha ...	0'07	.....	.....	.....	.....	1	0'07	0'07	?	57'41	?	
		Ramghar ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'24	?	
		Chrebassa ...	0'21	.....	.....	.....	0'18	2	0'30	0'59	0'24	34'53	50'86	
		Chakradhar-pore.	.....	.....	.....	0'05	.....	1	0'05	0'05	?	24'88	?	
Jhanda ...	Jhanda ...	Ghatstilla ...	0'42	.....	.....	.....	.....	1	0'42	0'42	?	51'88	?	
		Baharagura ...	.....	.....	.....	.....	.....	Nil	Nil	1'12	?	52'65	?	
		Purulia ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'14	44'92	48'41	
		Gobindpore ...	0'29	.....	.....	.....	.....	1	0'29	0'29	0'12	39'13	44'43	
Chas ...	Chas ...	Raghunath-pore.	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62'26	?	
		Barrabhamo ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44'22	?	
Jhanda ...	Jhanda ...	Jhanda ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64'71	?	
		Chas ...	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'18	?	

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 23rd December 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 19TH
OF DECEMBER 1890.**

FOR some days before the close of the previous week a fairly well-marked but feeble barometric depression had existed over North Bengal and parts of Central and South-West Bengal, and this had given rise to slightly disturbed weather with rather excessive temperature and with occasional rain showers. On the 12th, or the last day of the week, however it appeared as if the general weather conditions were becoming rather more normal, but on the 13th again a rather rapid fall of pressure took place over Chutia Nagpur and parts of Central and South-West Bengal and Orissa. Pressure on this day was in considerable defect of the normal over Chutia Nagpur and Orissa and the western and south-western parts of South-West Bengal, as well as over parts of North Behar and North Bengal, the defect over other districts being comparatively small, and this was accompanied by rather high temperature, the excess above the normal varying from nearly two degrees at Calcutta to about seven degrees at Cuttack and False Point. Conditions were therefore again somewhat abnormal on this day, and their effect was seen in the somewhat numerous local rain showers which were reported on the 14th in Orissa, South-West Bengal, and Chutia Nagpur. From the 13th to the 14th pressure generally rose by small amounts, but still Chutia Nagpur, the south-western stations of South-West Bengal and part of Orissa showed a distinctly defective pressure on the 14th compared to the remainder of the province, and again on the morning of the 15th rain showers were reported from Orissa, but conditions were evidently less disturbed than they were; and though temperature was rather largely in excess of the normal over the whole of the south-western districts, the largest excess temperatures of about 5° and upwards were confined to such stations as Saugor Island, Balasore, Cuttack, and False Point. A very rapid rise of pressure had taken place on the 15th, and at many stations it equalled more than a tenth of an inch. This had the effect of bringing the general pressure of the province above the normal, and temperature commenced to fall rather rapidly, though it still was above the normal. The wind current blowing over the province on the 15th was, however, still a little unsteady, though it was evident conditions were less disturbed than they were. On the 16th pressure changes were very small, but the fall of temperature continued, and over a large part of the province temperature was lower than the normal, while also a steady northerly wind current was blowing at almost all stations; so that on this day practically normal cold season conditions were again established. The pressure variations on the 17th and 18th were of little importance, but temperature at the western stations commenced to increase on the 17th, and this increase continued rather rapidly on the 18th; so that on this date at all the western stations the mean temperature was in excess of the normal by amounts ranging up to more than 5° at Dehree, Gya, Ranchee, Chyebassa, and Cuttack. On the 19th, or the last day of the week, pressure commenced to rise more rapidly, and became generally in excess of the normal, and temperature began to decrease at the western stations, though it rose in the centre and east of the province; and on this day the mean temperature was in excess of the normal at practically all stations except a few in the south-east of the province, the excess usually ranging from about 1° up to 5° . A fairly steady northerly wind current was, however, still blowing over practically the whole province on the 19th. It will therefore be seen that the principal feature of the week has been the continued relatively high temperature over the western districts of the province.

Pressure.—Has varied rather considerably, as noticed above, but the mean pressure has been very nearly equal to the normal for the week, and about half the stations show slightly defective pressures and half slight excess pressures. The variations are however, rarely more than one or two-hundredths of an inch, and generally pressure has been in excess in Behar and North, East, and South-West Bengal, and below it elsewhere.

Temperature.—The mean temperature for the week has been more than 5° in excess of the normal in Orissa, about two and-a-half degrees in excess in Chutia Nagpur, and about 1° in excess in South-West Bengal and South Behar. In other districts slight defects are shown varying up to 1° in North Bengal.

The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with

their normal values for the same period. It will be seen that the variations have generally been largest in the night or minimum temperatures:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 19th of December 1890.

	Normal mean maximum temperature for the week ending 18th December,	Actual mean maximum temperature for the week ending 18th December 1890,	Variation of actual mean from the normal,	Normal mean minimum temperature for the week ending 18th December 1890,	Actual mean minimum temperature for the week ending 18th December 1890,	Variation of actual mean from the normal,	Normal mean daily temperature for the week ending 18th December 1890,	Actual mean daily temperature for the week ending 18th December 1890,	Variation of actual mean from the normal,
Cuttack	82.3	85.1	+2.8	58.2	66.9	+8.7	76.3	76.0	+0.7
Calcutta	76.3	77.6	+1.3	57.6	57.6	+1.6	67.3	67.3	+1.2
Dacca	78.4	77.8	-0.6	57.1	55.7	-1.4	66.5	67.2	+0.4
Burdwan	77.8	77.7	-0.1	55.9	56.7	+0.8	66.8	67.2	+0.4
Patna	71.1	73.4	-0.7	51.3	52.1	+0.8	62.7	62.8	+0.1
Gya	75.6	76.4	+0.8	51.4	53.5	+2.1	63.5	65.0	+1.5
Purnea	76.0	73.3	-2.7	49.1	48.2	-0.9	62.6	60.8	-1.8
Hazaribagh	71.3	72.4	+1.1	50.4	52.3	+1.9	64.8	62.4	+1.6
Darjeeling	48.9	44.3	-4.6	36.3	33.8	-2.5	42.6	39.3	-3.4

Rainfall.—The rainfall for the week has been rather local. The only district where the falls have been of any importance has been Orissa, which has averaged 0.39 inch. In the districts of South-West Bengal, Chutia Nagpur, South Behar, and East Bengal, the falls have averaged less than a tenth of an inch. North Bengal and North Behar have been rainless, except for a slight shower at Buxa in the Darjeeling Hills district.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 19th of December 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.												
	Highest observed during week.			Lowest observed during week.			Averages for week.			Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	Average.	Normal average.	
Orissa	80.7	59.6	62.2	66.2	74.2	+5.1	0.39	0.03	+0.36	0.7	0.1	+0.6	0.44	0.39	63.71	53.02			
South-West Bengal	84.3	48.3	77.7	56.8	67.3	+0.8	0.39	0.01	+0.08	0.4	0.1	+0.3	0.00	0.18	56.92	51.46			
East Bengal	80.5	50.1	76.3	54.5	65.4	-0.6	0.01	0.01	0	0.1	0.1	0	0.07	0.32	71.49	73.98			
North Bengal	77.0	47.3	74.4	51.3	62.0	-1.2	Nil	0.03	-0.03	0.0	0.1	-0.1	Nil	0.13	95.09	68.97			
North Behar	70.8	43.9	73.7	49.6	61.7	-0.8	Nil	0.05	-0.05	0.0	0.1	-0.1	Nil	0.10	84.38	48.08			
South Behar	79.3	47.5	75.1	51.5	63.5	+0.8	0.02	0.08	-0.06	0.3	0.2	+0.1	0.02	0.13	54.68	43.82			
Chutia Nagpur	77.9*	48.7*	74.1*	52.1*	62.1*	+2.4*	0.07	0.12	-0.05	0.4	0.2	+0.2	0.00	0.18	40.00	48.47			

* Chhyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 23rd December 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	
December ..	14th ..	Inches.	•	•	•	•	71.6	64.6	.517	59.9	67
	15th ..	30.035	70.0	78.0	16.1	61.9	71.6	62.7	.452	56.1	58
	16th ..	.108	68.1	76.9	17.6	59.3	69.6	61.7	.445	55.7	61
	17th ..	.120	66.4	75.9	19.0	56.9	70.0	62.7	.474	57.5	65
	18th ..	.106	66.4	77.9	23.0	54.9	71.1	63.6	.489	58.3	64
	19th ..	.093	68.6	79.7	22.3	57.4	74.6	69.6	.658	66.8	77
	20th ..	.137	67.2	77.2	20.1	57.1	71.1	61.7	.425	54.1	56

The mean 10 A.M. pressure of the seven days 30.103

The mean temperature of the seven days 68.1

The extreme variation of temperature 24.8

The maximum temperature 79.7

The mean 10 A.M. relative humidity of the seven days 64

The total fall of rain from 14th to 20th December 1890 0.17

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 22nd December 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven principal towns of Bengal for the Quarter ending 30th September 1890.

BIRTHS.

THE births registered in twenty-seven of the principal towns of Bengal during the three months ending with September 1890 were 5,503, and correspond to an annual rate of 20.72 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1.52 lower than the mean rate of the corresponding quarters of the past five years (1885—89), and is also lower than the rate of the corresponding period of any of the past five years except 1887, *vide* the figures below:—

	QUARTER ENDING 30TH SEPTEMBER OF—					
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.
	Ratio of births per 1,000 of the population per annum	20.80	22.00	18.33	21.63	22.44
						20.72

The births registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

TOWNS.	RATIO PER MILLE.			TOWNS.	RATIO PER MILLE.			
	Quarter ending 30th Sept. of—		Average of five years 1885—89.		Quarter ending 30th Sept. of—		Average of five years 1885—89.	
	1890.	1889.			1890.	1889.		
Burdwan	24.28	20.40	18.76	Naraianganj	23.88	19.40	18.76	
Midnapore	15.84	14.83	16.92	Chittagong	9.54	12.28	19.68	
Hugli and Chinsurah	25.24	28.40	22.32	Comilla	16.56	29.60	27.24	
Serampore	28.52	33.96	25.48	Patna City	14.32	14.00	24.20	
Uttarpurā	23.92	23.92	19.60	Gya	27.36	24.20	33.36	
Howrah	18.76	21.96	18.84	Arrah	29.88	38.44	24.36	
Bali	14.28	18.08	15.36	Mozafferpore	18.12	24.76	19.36	
Krishnagar	14.14	17.60	15.72	Duribhangā	25.08	25.08	27.20	
Ranaghat	13.80	8.72	7.36	Chirapura	17.56	29.88	18.48	
Santipore	15.83	20.60	11.66	Bhasulpore	24.48	28.96	31.20	
Jessore	7.55	13.16	6.56	Monghyr	37.24	34.32	33.48	
Rampore Beauleah	34.12	27.08	22.00	Purneah	14.04	7.96	13.04	
Darjiling	42.72	29.60	18.20	Poori	13.20	21.12	16.44	
Dacca	14.36	13.12	12.12	Total	20.72	22.44	22.24	

It will be seen that the highest birth rate during the third quarter of 1890 occurred in the town of Darjiling (42.72) and the lowest in Jessore (7.52). The supposed standard in India is 40 per thousand, but only in Darjiling town out of the twenty-seven principal towns of Bengal was this standard reached during the quarter under report. The nearest approach to it was attained in the towns of Monghyr (37.24) and Rampore Beauleah (34.12). In only three, however, out of the twenty-seven principal towns of the province,—viz. Darjiling, Monghyr, and Rampore Beauleah—did the statistics of birth registration exceed 30 per thousand. In all the rest the rate was very low, especially in the towns of Bali, Krishnagar, Ranaghat, Jessore, Dacca, Chittagong, Patna City, Purneah, and Poori, where the statistics are so imperfectly recorded that the ratio was less than 15 per thousand of population.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with September 1890 were 6,200, and correspond to an annual rate of 23.36 per 1,000 of the aggregate population of those towns. This rate is 6.40 lower than the mean rate of the corresponding period of the past five years 1885—89, and is also lower than the recorded mortality of the corresponding quarter of any of the past five years with which comparison is instituted, *vide* the figures below:—

	QUARTER ENDING 30TH SEPTEMBER OF—					
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.
	Ratio of deaths per 1,000 of the population per annum	35.44	29.92	26.72	27.36	29.44
						23.36

The deaths registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

TOWNS.	RATIO PER MILLE.			TOWNS.	RATIO PER MILLE.			
	Quarter ending 30th Sept. of—				Quarter ending 30th Sept. of—			
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.	
Burdwan	20·72	27·44	25·08	Narriganj	15·91	21·96	18·18	
Midnapore	19·40	26·96	20·84	Chittagong	17·88	12·44	19·12	
Hugli and Chinsurah	23·24	30·52	27·12	Comilla	23·32	17·76	20·72	
Serampore	42·72	42·72	35·76	Patna City	17·52	19·56	25·68	
Uttarpara	28·28	31·20	21·04	Gya	45·60	62·60	72·88	
Howrah	14·96	18·52	17·36	Arrah	24·20	26·20	30·80	
Bali	20·76	18·88	16·72	Mogafferpore	23·64	27·16	27·40	
Krishnagar	9·28	14·52	16·38	Durbhangal	28·68	31·60	26·90	
Ranaghat	17·94	11·48	2·36	Chupra	24·04	34·36	32·88	
Santipore	14·92	12·52	9·56	Bhagulpore	19·23	31·36	29·04	
Jessore	20·36	21·16	14·12	Monzir	21·31	47·56	39·84	
Ramnagar Beaulash	23·24	31·82	29·48	Purneah	15·18	15·68	22·08	
Darjiling	45·00	45·00	31·20	Poori	37·12	72·44	71·88	
Dacca	21·48	29·64	17·20	Total	23·36	29·44	29·76	

The highest mortality during the third quarter of 1890 occurred in the town of Gya (45·60) and the lowest in Krishnagar (9·28). The total mortality of the twenty-seven principal towns in 1890 is lower than the total rates of the two past periods with which it is compared. Registration of deaths was particularly low in the towns of Krishnagar, Santipore, Howrah, Purneah, Narainganj, Ranaghat, Patna City, Chittagong, Bhagulpore, and Midnapore, where the ratios are less than 20 per thousand of population.

The total mortality during the quarter under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89:—

	RATIO PER MILLE DURING THE—			Quarterly average of quarter ending 30th September 1885—89.
	Quarter ending 30th September 1890.	Quarter ending 30th September 1889.	1885—89.	
Cholera	3·36	4·44
Small-pox	16	24
Fever	9·60	10·96
Bowel-complaints	3·00	4·20
Injury	52	52
Other causes	6·60	8·96
				8·28

The above statement, compared with the figures of both the past periods, shows a noticeable decrease in the mortality of the 3rd quarter of 1890 under the heads cholera, fever, bowel-complaints, and other causes.

The highest annual death-rates from the several registered death-causes occurred in the following towns:—

Cholera.	Fever.	Bowel-complaints.	Other causes.
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Chupra	11·92	Darjiling	25·04
Mozafferpore	7·76	Gya	21·48
Arrah	7·52	Uttarpara	14·24
Gya	6·80	Uttarpara	10·16
Durbhangal	6·80		
Santipore	4·44		
Patna City	4·08		
Serampore	3·16		
Midnapore	2·72		
Poori	2·24		

The mortality of the quarter under review according to Sex, Class and Age was distributed as follows:—

According to Sex.	According to Class.	According to Age.	
Ratio per mille.	Ratio per mille.	Ratio per mille.	
Males	24·40	Christians	17·80
Females	22·20	Hindus	24·44
Ratio of male deaths to every 100 female deaths calculated on the propor- tion such mortality bears to the total male and female population	109	Mahomedans	20·88
		Buddhists	3·92
		Other Classes	5·88
		Under 1 year	...
		1 year and under	5 years
		5 years	10
		"	"
		15	15
		"	"
		20	20
		"	"
		30	30
		"	"
		40	40
		"	"
		50	50
		"	"
		60	60
		"	"
		60 years and upwards	55·16

Detailed information regarding the vital statistics of the twenty-seven principal towns of Bengal of the quarter under review will be found in the statement appended.

The 22nd December 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

1	2	3	4	5	6	7	8	9	10	11	12																							
MORTALITY ACCORDING TO—																																		
POPULATION.				BIRTHS.				DEATHS FROM—																										
DISTRICTS.	NAMES OF MUNICIPAL TIES.	Total.	Perfemales.	Total.	Perfemales.	Total.	Perfemales.	Total.	Perfemales.	Total.	Perfemales.																							
Burdwan	Burdwan	18,063	16,017	34,059	307	100	207	12,52	11,72	2428	107	1	1	91	28	9	47	177	98	19,68	3,28	174	548	29,72	23,68	26	81	21,24	21,29	105				
Midnapore	Midnapore	16,927	16,639	33,569	62	71	133	7,35	8,44	16,84	87	23	2	35	41	..	59	163	272	20	4,53	4,58	..	7,00	19,40	23,36	91	72	21,18	17,28	134			
Boghali	Boghali	15,858	15,859	31,657	97	103	900	12,24	13,00	25,24	94	1	7	91	30	4	67	209	12	88	11,98	3,76	98	844	25,24	40,61	102	98	23,72	24,76	105			
Serampore	Serampore	13,559	12,907	26,466	117	72	169	17,64	18,84	25,52	162	31	..	69	57	5	111	283	316	..	13,40	8,00	72	1672	42,72	30,16	174	169	51,32	33,98	163			
Uttarpars	Uttarpars	3,046	2,445	5,510	15	18	33	10,88	13,04	23,92	83	9	..	8	14	1	14	39	144	..	5,89	10,16	72	10,16	28,28	23,40	24	15	31,48	24,34	159			
Howrah	Howrah	53,153	57,560	90,813	236	190	426	10,36	8,35	18,76	124	17	2	143	68	8	102	340	72	68	6,38	2,96	92	4,48	14,96	17,04	105	145	14,94	15,40	95			
Bali	Bali	7,835	6,919	14,815	34	19	53	9,16	6,18	14,28	179	..	1	47	15	1	13	27	..	24	12,68	4,05	24	3,48	20,76	18,32	42	95	24,52	14,34	185			
Krishnagar	Krishnagar	13,263	14,314	27,477	42	56	98	6,88	8,13	14,24	75	..	..	33	4	3	22	64	..	..	5,24	46	38	3,20	9,28	9,28	34	31	9,92	8,72	113
Ranaghat	Ranaghat	4,058	4,655	8,683	14	16	39	6,44	7,36	12,60	87	2	..	15	3	2	15	37	..	..	6,88	1,38	92	6,88	17,94	12,88	20	17	19,84	14,90	116	
Santipore	Santipore	13,705	15,979	29,687	64	54	118	8,00	7,24	15,88	118	..	..	63	9	4	12	114	44	..	7,12	1,20	62	1,0	14,92	9,96	51	60	14,98	15,00	99	
Jessore	Jessore	4,839	3,655	8,495	8	8	26	3,76	2,52	10	..	..	..	42	8	2	9	56	..	..	19,16	1,40	92	4,20	26,36	15,35	30	26	24,84	28,80	87
Rajshy	Rampore Residish	10,766	9,025	19,791	89	80	169	17,96	16,76	34,12	111	1	..	84	7	3	20	115	20	..	16,98	1,40	60	4,04	23,24	28,05	51	61	18,98	28,56	66			
Darjiling	Darjiling	4,579	2,439	7,018	37	38	75	21,08	21,64	42,72	97	..	1	44	25	..	9	79	5,56	25,04	14,24	..	5,12	5,09	53,84	47	34	41,04	52,48	78		
Dacca	Dacca	42,782	37,375	80,161	144	144	268	7,16	14,36	160	20	9	163	71	9	130	431	134	..	44	8,12	3,63	34	7,98	2,48	23,94	27	186	25,32	17,12	147			
Narsinganj	Narsinganj	7,003	4,956	12,561	39	30	75	12,40	11,44	23,88	168	..	..	23	6	2	19	50	..	..	7,32	1,88	60	6,04	15,92	19,49	27	23	14,20	18,56	76
Chittagong	Chittagong	13,240	8,730	22,130	50	54	53	6,24	4,32	9,56	150	3	1	52	20	4	19	99	53	..	16	9,36	3,60	72	3,40	17,88	13,52	63	56	16,88	16,34	118		
Tipperah	Comillah	8,153	6,353	13,406	29	37	56	8,50	7,96	16,56	107	..	..	51	2	3	13	22	..	..	15,96	56	88	3,84	21,32	24,54	40	32	19,60	23,88	62
Patna	Patna City	75,762	61,376	160,237	37	26	583	8,40	6,12	14,52	137	6	115	6	216	107	18	191	703	498	..	5,33	3,64	44	4,76	17,52	22,56	331	322	19,32	15,80	133		
Gya	Gya	38,290	37,831	76,121	264	261	521	13,84	13,48	27,36	102	130	1	409	26	7	225	868	680	..	94	21,46	1,36	36	15,48	45,60	37,66	424	444	44,28	46,92	94		
Shahabad	Arrah	20,580	22,500	43,406	179	146	325	18,44	13,40	29,58	122	82	3	119	14	7	38	263	752	..	24,00	1,28	64	3,48	2,40	24,00	145	118	27,04	20,94	131			
Monsurpore	Monsurpore	23,084	19,658	42,749	93	96	194	9,16	8,96	18,12	102	149	10	2	73	44	13	60	274	776	..	6,80	4,08	1,12	5,60	25,64	24,20	137	137	23,72	27,84	85
Durbanga	Durbanga	35,774	33,322	66,696	216	169	415	15,04	12,94	25,08	108	113	1	195	66	10	80	474	680	..	11,80	6,98	60	5,36	98,68	29,63	233	233	59,16	26,40	66			
Sarun	Sarun	23,116	26,154	61,670	120	107	927	9,28	8,28	17,56	112	154	6	63	85	8	67	311	112	..	4,08	176	93	5,10	9,04	13,78	178	133	38,52	38,09	141			
Bhagalpore	Bhagalpore	29,640	27,813	57,455	200	183	352	13,92	10,56	24,48	131	6	..	149	10	2	105	277	34	..	10,36	1,08	1,12	7,28	19,28	24,40	150	127	20,24	18,24	111			
Monghyr	Monghyr	23,154	20,366	57,500	268	276	536	15,08	13,16	37,24	94	17	..	148	67	15	113	359	116	..	10,25	3,96	104	781	24,32	24,83	101	159	37,12	21,00	123			
Purnash	Purnash	8,655	16,016	25	35	49	6,12	6,13	13,04	113	1	..	43	9	1	3	57	24	..	11,44	2,46	74	76	13,16	24,65	31	26	14,64	15,84	93				
Poorti	Poorti	13,247	11,537	24,784	46	36	82	7,40	6,80	13,20	127	14	5	80	35	5	90	239	224	..	12,88	5,80	59	14,52	37,42	101,32	128	106	37,44	36,72	103			
Total	Total	550,986	510,588	1,041,574	2,040	2,594	5,563	10,76	9,76	9,72	113	87	48	2,558	501	144	1,762	6,969	336	16	9,49	3,00	52	6,61	23,36	25,45	109	109	24,40	23,40	109			

DISTRICTS.	NAME OF MUNICIPALITY,	DEATHS AMONG—	MORTALITY ACCORDING TO—																										
			CLASS.			AGE.			DEATHS.																				
			Ratio per 1,000 of Population for Annum.			Ratio per 1,000 of Population per Annum.			Ratio per 1,000 of Population per Annum.																				
			Christians.	Hindus.	Mahomedans.	Buddhists.	Other Christians.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 and under 65 years and up.	65 and under 70 years.	70 and under 80 years.	80 and under 90 years.	90 and under 100 years and up.	100 years and up.							
Burdwan	Burdwan	40	2512	1576	...	28	8	11	20	25	18	21	25	163.68	14.16	22.72	9.32	14.04	16.25	34.20	67.44								
Midnapore	Midnapore	26	2076	1440	...	21.65	22	9	5	6	8	18	22	118.40	15.35	5.32	6.55	10.12	9.80	33.60	34.88	74.28							
Hugli	Hugli and Chin-shurh.	33	2540	2140	...	40	22	14	7	6	8	17	19	14	25	199.24	52.24	11.28	9.55	13.94	11.88	18.20	21.82	50.16					
Serampore	Serampore	31	1232	8976	13216	...	49	20	14	21	11	33	27	20	25	275.94	64.24	22.24	37.80	20.12	23.76	21.73	23.63	53.20	158.12				
Uttarparsa	Uttarparsa	1	251	31	...	33.52	2172	...	8	3	3	2	3	4	5	...	4	7	19.87	23.48	13.88	18.84	....	43.44	107.68			
Howrah	Howrah	5	254	81	...	1052	1688	1576	...	65	45	22	10	12	43	43	37	22	33	125.00	31.94	13.95	6.04	6.32	7.66	8.92	13.50	16.00	40.32
Bali	Bali	13	64	1908	3964	...	16	10	10	3	3	5	3	10	5	15	17.76	40.94	37.51	10.08	....	5.90	4.28	20.64	19.68	81.98		
Krishnagar	Krishnagar	44	20	9.64	9.48	...	18	4	3	2	2	5	3	10	8	9	145.16	6.48	3.48	2.84	4.12	2.80	13.24	15.16	20.50				
Ranaghat	Ranaghat	6	31	1692	1756	...	5	2	3	5	2	5	4	6	4	5	3	96.63	10.94	10.60	13.94	15.92	27.60	21.98					
Nuddea	Nuddea	88	23	1700	1028	...	20	8	8	5	6	7	13	6	7	31	91.64	11.04	8.44	6.88	10.75	5.85	11.88	6.80	12.10	63.12			
Jessore	Jessore	26	30	32.94	3136	...	9	8	3	5	3	7	6	5	4	6	135.56	6.76	15.12	30.94	16.36	13.88	15.68	19.04	22.40	52.40			
Raiababy	Raiababy	49	7046	2620	1998	...	20	11	18	7	2	12	7	14	9	15	197.04	31.00	34.80	15.32	4.80	11.32	7.76	22.80	29.00	63.28			
Darjiling	Darjiling	2	1	20000	5929	13704	240	9	24	5	4	17	7	6	5	2	297.52	149.25	34.16	25.00	34.50	19.52	31.95	81.96	47.33				
Dacca	Dacca	161	840	2468	1840	...	58	49	23	18	25	55	63	44	36	37	0.07	122.30	26.56	9.24	9.94	13.65	14.32	19.20	20.96	30.40	48.08		
Narsinganj	Narsinganj	20	30	1764	1948	...	16	9	3	1	1	...	4	4	3	3	7	229.35	31.86	6.06	3.82	5.06	7.43	8.00	15.32	42.92		
Chittakong	Chittakong	21	73	1474	2512	1474	13	7	7	10	6	15	8	12	7	14	93.35	146.40	11.20	15.32	9.92	12.95	9.56	21.24	25.80	70.32			
Comilla	Comilla	47	...	1680	2540	...	18	8	5	4	4	5	3	9	4	16	24.24	12.25	10.96	12.68	4.32	6.00	27.33	19.98	81.56				
Patna	Patna	132	1873	1874	1884	16764	13	7	7	10	6	15	8	12	7	14	93.35	146.40	11.20	15.32	9.92	12.95	9.56	21.24	25.80	70.32			
Gya	Gya	167	700	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168			
Shahabad	Arrah	75	188	2424	2416	...	47	33	16	20	14	33	23	21	19	34	145.96	29.75	12.44	18.98	17.73	18.33	14.28	17.83	24.52	47.12			
Moyna	Moyna	205	68	1716	2178	...	40	52	22	16	21	25	14	25	21	205.20	51.44	19.52	16.16	27.03	13.48	14.33	11.16	30.76	34.48				
Durbanga	Durbanga	143	3535	3724	3535	...	85	73	56	33	41	33	33	33	33	33	37	65	218.38	40.96	25.88	11.92	13.20	11.80	22.40	33.72	68.84		
Sacun	Chupra	68	243	68	68	68	68	68	68	68	68	68	68	68	68	68	68	44	125.73	38.72	10.72	9.56	26.48	18.20	13.32	16.44	31.92	47.98	
Bhagalpur	Bhagalpur	191	63	3198	1920	1924	77	15	9	18	25	31	19	15	27	27.93	28.04	10.30	6.72	17.20	9.12	14.64	11.80	14.08	29.96				
Monghyr	Monghyr	71	3360	2476	3360	...	113	69	15	7	20	31	16	12	46	33.56	8.48	4.83	31.16	13.88	10.04	12.04	51.28						
Purneah	Purneah	24	2392	1392	2392	...	10	5	4	5	6	7	8	5	3	141.32	16.72	16.52	11.20	19.76	17.04	18.94	17.04	17.04					
Poori	Poori	2	927	927	927	...	33	19	10	3	9	21	26	27	53	43.64	42.28	17.84	6.30	19.34	15.88	25.60	31.28	48.40	117.36				
TOTAL	TOTAL	...	4628	1,038	8	1	1780	2144	2144	835	408	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598	598		

W. H. GREGG, Dip. Publ. Health, Camb.
Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 6th December 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 6th December 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 30·5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25·6	27·5	27·5	27·3	28·4	27·2	30·5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.		15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	21·4	39·7	33·6	44·2	Narsinganj	74·5	37·3	91·1	74·5
Midnapore	18·5	29·4	26·3	29·4	Chittagong	16·4	9·4	4·7	18·8
Hughli and Chinsurah	32·8	44·3	24·6	29·5	Comilla	23·1	27·0	42·4	50·1
Serampore	55·0	43·2	31·4	25·5	Patna City	10·7	13·3	12·3	15·3
Uttarpara	37·7	56·6	37·7	Gya	21·9	34·2	21·9	27·3	
Howrah	28·1	36·1	31·5	30·9	Arrah	10·8	33·5	10·8	29·9
Bali	21·1	31·6	14·0	35·1	Mozaffarpore	32·8	10·9	24·3	31·6
Krishnagar	13·2	11·4	9·5	13·2	Durbangha	36·2	40·1	46·4	44·1
Ranaghat	24·0	12·0	6·0	6·0	Chupra	14·1	23·1	21·1	35·2
Santipore	19·8	24·5	22·8	17·5	Bhagulpore	37·1	24·4	40·7	31·7
Jessore	30·6	6·1	6·1	Monghyr	30·7	38·9	37·1	41·6	
Rampore Beasleah	44·7	52·5	43·9	44·7	Purneah	6·9	10·4	17·3	17·3
Darjiling	44·5	29·6	41·5	29·6	Pooree	14·7	14·7	12·6	33·6
Dacca	24·0	31·1	31·1	42·8	Total	24·2	27·6	26·5	30·5

It will be seen that last week the highest birth-rate was returned from Narsinganj (74·5) and the lowest from Ranaghat (6). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 31·5 per 1,000 of the population. The rate of the week is 1·4 below the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1886, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	35·3	40·2	26·3	30·3	29·6	32·9	31·5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.		15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	22·9	33·6	41·3	27·5	Narsinganj	58·0	55·0	120·1	126·1
Midnapore	29·4	29·4	20·1	29·4	Chittagong	14·1	1·4	18·5	23·2
Hughli and Chinsurah	62·5	37·7	27·9	29·5	Comilla	19·3	23·1	30·8	30·8
Serampore	72·6	86·4	53·0	68·7	Patna City	14·3	14·3	14·6	11·4
Uttarpara	66·1	28·3	73·5	63·1	Gya	23·4	40·9	30·1	62·8
Howrah	23·9	26·9	26·9	44·7	Arrah	12·0	13·2	7·3	23·9
Bali	21·1	17·5	17·5	21·1	Mozaffarpore	17·0	17·0	14·6	23·1
Krishnagar	6·7	5·7	3·7	18·9	Durbangha	18·9	31·0	27·5	26·0
Ranaghat	12·0	30·0	35·9	12·0	Chupra	8·0	13·1	8·0	27·2
Santipore	7·0	17·5	8·8	19·3	Bhagulpore	17·2	19·0	15·4	23·5
Jessore	49·0	18·4	36·7	18·4	Monghyr	27·1	26·2	28·0	28·0
Rampore Beasleah	13·1	47·3	47·3	31·5	Purneah	13·0	6·9	20·8	13·0
Darjiling	7·4	22·3	51·9	Pooree	65·0	68·7	96·5	73·4	
Dacca	15·6	45·4	28·5	31·1	Total	23·4	28·1	25·7	31·5

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Patna City (11·).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Narainganj 62·1	Chittagong 9·4	Darjiling ... 44·5	Serampore 11·8	Serampore ... 27·5
Howrah ... 14·9		Poori ... 35·6		Gya ... 26·6
Serampore 13·7		Gya ... 33·5		Poori ... 23·1
Dacca ... 5·8		Narainganj ... 29·0		Midnapore ... 21·7
		Arrah ... 21·5		Hugli and Chinsurah 11·5
		Burdwan ... 21·4		Howrah ... 11·5
		Rampore Beauleah 21·0		Chupra ... 11·1
				Dacca ... 10·4

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·9 from cholera, against 3·5 per 1,000 in the preceding week; 5 from small-pox, against 1·1; 13·7 from fever, against 11·7; 3·3 from bowel-complaints, against 2·5; 4 from injury, against 3; and 9·7 from other causes, against 7·5 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males 33·2	Christians ... 22·4	Under 1 year ... 233·5
Females 29·7	Hindus ... 33·9	1 and under 5 years ... 36·4
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 111	Mahomedans ... 26·1	5 " 10 " ... 19·3
		10 " 15 " ... 14·0
		15 " 20 " ... 24·4
		20 " 30 " ... 20·7
		30 " 40 " ... 23·4
		40 " 50 " ... 18·7
		50 " 60 " ... 34·9
		60 years and upwards ... 79·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 23rd December 1890.

Sanitary Commissioner for Bengal.

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																							
		Males.	Females.	Total.	Males.	Females.	Total.	DEATHS FROM—			DISEASES.			DEATHS PER 1,000 OF POPULATION PER ANNUM.			RATIO PER 1,000 OF POPULATION PER ANNUM.			SER.											
Burdwan	...	18,063	16,417	34,480	19	10	29	290	15·2	44·2	190	...	14	2	18	...	21·4	3·0	27·5	41·2	13	5	37·4	16·2	230						
Midnapore	...	16,987	16,635*	33,620	9	10	19	13·9	15·5	29·4	90	...	1	3	14	19	1·5	4·6	1·5	21·7	29·4	20·1	11	8	33·8	25·0	135				
Hughli	...	16,855	15,803	31,657	13	5	18	21·3	8·2	29·5	260	2	0	...	7	18	3·3	14·7	...	11·5	29·5	27·9	11	7	33·1	27·0	157				
Serampore	...	13,559	12,937	26,496	8	6	13	15·7	9·8	25·5	160	7	6	2	14	35	13·7	11·8	3·9	27·5	68·7	55·0	18	17	69·9	68·3	101				
Serampore	...	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	...	3	8	1	7	...	28·3	28·3	9·4	66·4	75·5	3	4	51·2	84·4	60				
Hovrah	...	23,153	37,660	90,813	33	15	54	22·3	8·6	30·9	260	26	16	13	3	20	78	14·9	9·2	1·7	11·5	44·7	26·9	54	24	63·8	33·1	139			
Hovrah	...	7,836	6,979	14,815	4	6	10	14·0	21·1	25·1	65	...	4	1	1	6	...	14·9	3·5	...	3·5	21·1	17·5	2	4	13·3	29·8	44			
Krishnagar	...	13,263	14,214	27,477	5	2	7	9·4	3·8	13·2	250	1	...	7	...	2	40	1·9	...	13·2	...	3·8	18·9	5·7	6	3	23·3	14·6	161		
Nuddea	...	4,025	4,655	8,683	1	...	1	6·0	...	6·0	No female birth.	1	...	1	...	1	2	6·0	12·9	35·9	1	1	12·9	11·2	115			
Santipore	...	13,708	15,979	29,687	5	5	10	8·7	8·7	17·5	190	...	9	...	3	11	...	15·8	...	3·5	19·3	8·8	9	2	34·1	6·5	524				
Jessore	...	4,830	3,685	8,495	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	1·2	18·4	36·7	2	1	31·5	14·2	151
Rajahalye	...	10,766	9,025	19,791	11	6	17	28·9	15·8	44·7	163	3	8	6	...	8	12	5·2	...	5·2	31·5	47·3	6	6	27·0	34·0	84				
Darjiling	...	4,579	2,439	7,018	4	...	4	29·6	...	29·6	No female birth.	...	6	...	1	7	...	4·5	...	7·4	51·9	22·2	7	...	79·5	...	No female death.				
Dacca	...	32,782	37,379	90,161	33	36	66	19·4	23·4	42·8	83	9	...	15	8	16	48	5·8	...	9·7	6·2	...	19·4	31·1	28·5	27	21	33·8	29·2	113	
Karinganj	...	7,605	4,956	12,561	6	12	18	24·8	49·7	74·5	50	15	1	7	8	...	3	29	6·1	4·1	29·0	15·4	...	12·4	180·1	19	10	122·9	10·9	123	
Chittagong	...	13,340	8,790	22,130	3	5	6	7·0	11·7	48·8	60	...	4	2	3	8	12	5·2	...	21·0	70	28·2	18·8	7	5	27·3	29·6	140	
Tipperah	...	8,153	5,353	13,506	7	6	13	27·0	23·1	50·1	116	3	2	...	3	8	11·5	...	7·7	...	11·5	30·8	30·8	4	4	25·5	38·9	65			
Patna	...	78,762	81,475	160,837	20	27	47	6·5	5·8	15·3	74	1	21	2	...	10	34	3	...	6·8	6·6	...	3·2	11·0	49·9	16	15	10·8	11·5	22	
Gya	...	35,290	37,831	76,121	23	17	49	15·7	11·6	27·3	135	2	49	...	2	39	9·2	1·3	35·5	...	1·3	35·6	62·8	30·1	42	50	57·9	68·7	83		
Shahabad	...	26,960	22,505	48,465	17	8	26	20·3	9·6	29·6	213	...	18	...	2	20	...	21·5	2·4	23·9	7·2	6	14	14·9	32·3	46			
Monufiapore	...	33,084	19,656	42,749	10	16	26	12·1	18·5	31·6	62	1	1	7	8	7	19	1·2	8·5	3·6	...	8·5	23·1	14·0	7	12	15·8	31·7	50		
Durbanga	...	33,774	32,323	66,096	20	27	56	22·8	21·2	44·1	107	2	...	19	4	...	8	33	1·6	...	14·9	31	...	6·3	26·0	27·6	17	16	26·2	25·7	103
Satun	...	25,116	24,554	51,670	20	15	35	20·1	15·1	35·9	133	3	11	1	...	11	27	3·9	1·0	11·1	1·0	...	11·1	27·2	8·0	15	10	31·1	29·3	132	
Bhagulpore	...	29,640	27,813	57,463	15	20	35	15·6	18·1	31·7	75	2	10	4	1	9	26	1·8	...	9·1	3·6	...	8·1	23·5	15·4	16	10	28·1	18·7	150	
Monghyr	...	35,154	29,306	57,520	23	23	46	20·8	21·2	41·6	100	1	12	10	...	8	31	...	19	10·8	3·0	...	7·2	28·0	14	17	25·9	20·1	86		
Purneah	...	8,403	6,553	15,016	1	4	5	3·4	13·9	17·3	25	...	8	...	1	4	...	10·4	9·6	13·9	20·8	2	2	12·3	15·7	77			
Poori	...	13,247	11,597	24,734	9	7	16	18·9	14·7	33·6	128	2	1	17	3	1	11	35	4·2	2·1	35·6	6·3	21	23·1	73·4	9·6	17	18	66·7	81·7	83
Total	...	50,986	51,558	1,061,774	334	288	692	16·4	16·1	30·5	115	80	10	27·0	67	9	169	6·44	3·9	5	13·7	3·3	5	97	31·5	23·7	353	292	59·9	29·7	111

DISTRICTS,	MUNICIPALITIES,	NAMES OF CLASSES,	DEATHS AMONG—	RATIO PER MILION OF POPULATION PER ANNUM.										Age.														
				Christians.	Hindus.	Mahomedans.	Buddhistes.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhistes.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 and under 70 years.	70 and under 80 years.	80 and up to 100 years.			
MORTALITY ACCORDING TO—																												
Burdwan ...	Burdwan ...	... 11	7	... 24·2	35·5	... 4	5	2	... 1	... 3	2	1	4	2	... 315·2	115·2	44·8	... 18·6	... 30·2	23·5	... 30·2	23·5	... 30·2	23·5	... 30·2		
Midnapore ...	Midnapore ...	... 16	2	... 233·2	331·1	13·4	... 4	... 1	... 1	1	4	1	1	1	1	4	279·9	... 279·9	... 279·9	... 49·4	14·2	9·4	53·8	25·2	113·7		
Hurkli and Chinsurah ...	Hurkli and Chinsurah ...	... 15	3	... 39·9	29·3	... 6	1	2	... 1	1	4	1	1	1	1	3	388·5	23·4	56·0	... 49·4	13·5	8·4	36·4	13·5	75·3		
Serampore ...	Serampore ...	... 31	4	... 63·9	221·7	... 5	6	6	1	1	2	6	4	4	3	4	326·2	172·9	20·7	23·4	47·3	48·3	41·8	61·6	31·5	14·9	
Uttarpur ...	Uttarpur ...	... 6	1	... 58·6	288·6	... 1	... 1	1	1	1	1	1	1	1	1	1	323·0	... 323·0	111·6	118·2	185·6	... 185·6	... 185·6	... 141·3	... 141·3	... 141·3	
Borobh ...	Borobh ...	... 57	91	... 43·5	63·9	... 9	9	6	8	6	12	13	6	2	7	7	226·9	84·5	49·6	63·2	42·6	27·5	35·1	26·5	18·9	97·9	
Bali ...	Bali ...	... 6	...	... 23·3	...	1	1	1	1	1	2	1	1	1	1	1	143·6	52·1	... 52·1	... 52·1	... 52·1	... 52·1	... 52·1	... 52·1	... 52·1	71·9
Krishnagar ...	Krishnagar ...	... 9	1	... 25·1	6·3	... 2	1	1	1	1	1	1	1	1	1	1	209·7	31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	49·4	
Nuddea ...	Nuddea ...	... 2	...	... 14·2	...	...	...	...	...	...	...	...	...	...	...	...	133·1	17·9	27·5	... 27·5	... 27·5	... 27·5	... 27·5	... 27·5	... 27·5	91·4
Ranaghat ...	Ranaghat ...	... 9	2	... 22·6	11·6	... 2	1	1	1	1	1	1	1	1	1	1	133·1	17·9	27·5	... 27·5	... 27·5	... 27·5	... 27·5	... 27·5	... 27·5	91·4	
Jessore ...	Jessore ...	... 2	1	... 23·1	13·6	... 1	1	1	1	1	1	1	1	1	1	1	209·7	31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	49·4	
Rajshahiye ...	Rajshahiye ...	... 8	4	... 42·0	21·2	... 2	1	1	1	1	1	1	1	1	1	1	209·7	31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	... 31·1	54·0	
Darjiling ...	Darjiling ...	... 7	...	... 79·2	...	...	...	...	...	...	...	...	...	...	...	...	161·7	...	...	...	...	...	...	...	...	...
Dacca ...	Dacca 1	30	17	...	109·5	38·7	24·5	...	6	7	2	5	3	6	6	3	3	7	164·8	40·4	10·5	32·7	21·4	20·4	25·8	18·0	32·9
Naraiangana ...	Naraiangana ...	... 14	15	... 115·1	126·6	... 4	5	1	1	3	7	7	7	7	7	7	275·5	228·1	39·4	... 140·3	136·3	170·2	... 170·2	... 170·2	... 170·2	189·5	
Chittagong ...	Chittagong ...	... 2	10	... 17·9	34·0	... 2	1	4	1	1	1	1	1	1	1	1	184·7	26·4	83·2	20·2	... 31·3	31·3	... 31·3	31·3	31·3	47·9	
Tapperah ...	Tapperah ...	... 5	3	... 43·7	21·1	... 3	1	1	1	1	1	1	1	1	1	1	525·3	...	...	...	...	...	...	...	...	...
Patna City ...	Patna City ...	... 27	7	... 11·8	8·9	... 7	1	1	2	3	4	3	2	2	2	2	84·5	3·6	3·1	7·2	6·7	5·5	18·4	22·6	...	...
Gya ...	Gya 75	17	... 65·0	65·0	... 21	13	3	1	3	8	7	6	8	8	8	60·9	106·4	22·3	7·7	29·8	29·8	29·8	26·6	65·3	92·4	...	
Shahabad ...	Shahabad 18	2	... 30·2	8·4	... 3	2	2	2	1	1	1	1	1	1	1	131·1	22·5	...	22·5	16·2	16·2	16·2	11·1	16·8	136·4	...	
Mousherpore ...	Mousherpore ...	... 1	14	4	...	223·2	24·2	16·7	...	7	1	2	...	...	3	3	3	3	3	3	3	3	3	3	3	3
Urbnabha ...	Urbnabha 25	8	... 26·9	23·7	... 7	3	4	3	2	6	2	2	2	2	2	4	233·8	26·5	26·6	26·6	22·6	6·7	17·1	56·3	61·1	...	
Sarun ...	Sarun 15	8	... 24·9	34·9	... 4	4	2	1	1	4	1	3	4	4	4	147·4	40·3	17·5	16·5	37·3	42·8	11·2	8·3	48·8	
Bhagulpore ...	Bhagulpore 21	5	... 27·5	15·1	... 3	2	2	2	3	9	9	1	1	1	1	130·7	177	16·5	37·3	42·8	11·2	8·3	48·8
Monghyr ...	Monghyr 27	4	... 31·4	16·5	... 7	...	2	1	6	4	4	1	6	1	6	245·1	...	18·7	31·6	
Purneah ...	Purneah 2	2	... 11·3	18·4	... 11·3	2	2	2	1	1	1	1	1	1	1	1	31·7	35·5	...	55·5	...	55·5	...	
Poore ...	Poore 33 74·2	4	2	2	2	1	3	4	7	7	12	686·5	57·9	34·9	
Total ...	Total ...	... 3	433	145	...	114	26·1	...	...	38	84	79	43	62	106	233·5	36·4	19·3	14·0	24·4	20·7	23·4	16·7	34·9	79·1	...

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of September 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
MACHGONG , , 4 , ,

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
16	1. Grain ...	18	72	90	4,542	90	4,542		
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	.....	7	7	375	7	375	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
24	8. Miscellaneous ...	23	161	184	2,938	184	2,938		
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
1 raft	11. Bamboos ...	.....	7,300 No.	7,300 No.	50	7,300 No.	50	
42 & 1 raft.	12. Total ...	{ 41	240 & 7,300 No.	281 & 7,300 No.	7,905	{ 281 & 7,300 No.	7,905		
36 & rafts.	13. Total of same month last year.	{ 30	342	372	{ 15,513	{ 356	{ 10,453		

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	11	31	42	Total tollage of month— 24 + 25 + 26 ...	103 8 6
15. Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year ...	138 14 3
15½. Do. empty boats, private,,	31	8	39		
16. Total registered tonnage, cargo Tons	41	240	281		
16½. Do. empty Govt. No.	.....	1	1		
17. Total registered tonnage, passenger Tons	.....	.....	.....	<i>Memorandum of Tollage.</i>	
18. Ton-mileage ...	3,542	6,076	9,618		
19. Estimated value of cargo Rs.	2,130	5,725	7,855		
20. Number of passengers ...	.....	.....	.....	1. Balance not recovered on the 1st of the month ..	Rs. A. P.
21. Rafts, bamboos No.	.....	7,300	7,300	2. Tollage per month ...	103 8 6
22. Do., bullahs "	.....	.....	.....	3. Total ...	153 2 0
23. Estimated value of rafts Rs.	.....	50	50	4. Amount credited in the accounts of the month ..	147 8 0
24. Tollage on boats ,,	24-13-0	73-5-0	98-2-0		
24½. Do. do. empty Govt. ,,	.....	3-2-0	3-2-0		
25. Compounded tollage on boats . Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	2-4-6	2-4-6		
27. Total tollage on boats per ton-mile , , Rs.	.....	.....	0-0-2-00		
28. Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....	5. Balance due at the end of the month ...	5 10 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.			REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.			
		Up.	Down.	Total.						
163	1. Grain ...	231	2,425	2,656	2,01,390	2,656	2,01,390			
2	2. Cotton ...	10	.....	10	2,800	10	2,800		
38	3. Oilseeds ...	.....	873	873	1,19,600	873	1,19,600		
12	4. Salt ...	19	18	37	4,000	37	4,000			
1	5. Piece-goods ...	26	.....	26	70,000	26	70,000		
2	6. Metal ...	20	.....	20	1,500	20	1,500		
34	7. Building materials ...	15	420	435	11,100	406	11,060			
90	8. Miscellaneous ...	1,244	112	1,356	1,26,680	1,356	1,26,680			
14	9. Fuel ...	53	16	69	430	69	430			
4 rafts	10. Timber ...	.....	144 c. ft.	144 c. ft.	70	144 c. ft.	70		
1 raft	11. Bamboos ...	.....	25 ,,	25 ,,	10	25 ,,	10		
356 & 5 rafts.	12. Total ...	{ 1,618	{ 3,864 & 169 c. ft.	{ 5,482 & 169 c. ft. }	5,37,580	{ 5,453 & 169 c. ft. }	{ 5,37,540			
196 & 2 rafts.	13. Total of same month last year.	{ 895	{ 1,081 & 375 c. ft.	{ 1,976 & 375 c. ft. }	1,19,780	{ 1,940 & 375 c. ft. }	{ 1,19,610			
		Up.	Down.	Total.						
14. Total number of boats plying cargo No.		149	207	356				Rs. A. P.		
15. Total number of boats plying passenger No.		48	52	100	Total tollage of month— 24 + 25 + 26 ...			7,059	7 9	
15½. Ditto empty boats ,,		209	116	325	Total tollage of same month last year ...			3,544	6 7	
16. Total registered tonnage, cargo, private Tons		3,149	6,401	9,550						
16½. Ditto Government ditto ,,		.....	43	43					
17. Total registered tonnage, passenger Tons		2,310	2,416	4,726	<i>Memorandum of Tollage.</i>					
17½. Ditto empty boats ,,		2,710	713	3,423				Rs. A. P.		
18. Ton-mileage ...		341,931	345,985	687,916	1. Balance not recovered on the 1st of the month ...					
19. Estimated value of cargo Rs.		2,02,920	3,34,580	5,37,500				7,613	9 6	
20. Number of passengers ...		1,438	1,508	2,946	2. Tollage per month ...					
21. Rafts, bamboos C. ft.		.....	25	25				7,059	7 9
22. Do., timbers ,,		.....	144	144					
23. Estimated value of rafts Rs.		.....	80	80					
24. Tollage on boats ,,		2,891-7-2	4,162-7-4	7,053-14-6	3. Total ...			14,673	1 3	
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...				
26. Tollage on rafts ,,		.....	5-9-3	5-9-3				7,720	14 5
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-2	5. Balance due at the end of the month ...				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	3-4-9				6,952	2 10

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
86	1. Grain	339	7	346	18,450	346	18,450		
4	2. Cotton	3	40	43	11,900	43	11,900		
30	3. Oilseeds	158	2	160	12,850	160	12,850		
63	4. Salt	.....	190	190	15,450	190	15,450	
3	5. Piece-goods	.....	10	10	5,600	10	5,600	
1	6. Metal	2	.....	2	600	2	600	
7	7. Building materials	15	11	26	180	26	180		
40	8. Miscellaneous	66	91	157	14,370	157	14,370		
2	9. Fuel	18	.....	18	50	18	50	
...	10. Timber	...	.....	.....	.....	.....	.....
...	11. Bamboos	...	.....	.....	.....	.....	.....
236	12. Total	601	351	952	79,450	952	79,450		
220	13. Total of same month last year	660	287	947	45,870	876	45,770		

	Up.	Down	Total.	Total tollage of month— 24 + 25 + 26	Rs. A. P.
14. Total number of boats plying cargo	No.	142	94	236	988 2 0
15. Total number of boats plying passenger	No.	23	24	47	575 4 6
15½. Do. empty boats	„	38	86	124	<i>Memorandum of Tollage.</i>
16. Total registered tonnage, cargo, private	Tons	1,397	736	2,133	
16½. Ditto Govt. stores	„	.....	.....		Rs. A. P.
17. Total registered tonnage, passenger	Tons	343	391	734	1. Balance not recovered on the 1st of the month ...
17½. Do. empty. boats	„	157	455	612	413 5 9
18. Ton-mileage	...	57,693	37,007	94,700	2. Tollage per month ...
19. Estimated value of cargo	Rs.	35,230	44,220	79,450	988 2 0
20. Number of passengers	...	318	399	717	
21. Rafts, bamboos	C. ft.	.....	.....
22. Do., bullahs	„	.....	.....	3. Total ...	1,401 7 9
23. Estimated value of rafts	Rs.	.....	.....
24. Tollage on boats	„	563-0-3	425-1-9	988-2-0	4. Amount credited in the accounts of the month
25. Compounded tollage on boats	Rs.	.....	.....		1,089 15 9
26. Tollage on rafts	„	.....	.....
27. Total tollage on boats per ton-mile	Rs.	.....	.....	5. Balance due at the end of the month ...	311 8 0
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
19	1. Grain ...	27	25	52	2,863	52	2,863		
2	2. Cotton ...	.....	4	4	440	8	440	
4	3. Oilseeds ...	4	11	15	1,985	15	1,985		
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
1	7. Building materials ...	.....	2	2	10	.....	.....
23	8. Miscellaneous ...	5	51	56	5,651	56	5,651		
2	9. Fuel ...	.....	4	4	200	4	200	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
51	12. Total ...	36	97	133	11,149	135	11,139		
121 & 4 rafts.	13. Total of same month last year.	{ 70	221½ & 108 c. ft.	291½ & 108 c. ft.	{ 15,329 { 145½ & 108 c. ft.	{ 15,040			
		Up.	Down.	Total.					
14.	Total number of boats ply- ing cargo ... No.	19	32	51	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P.		
15.	Total number of boats ply- ing passenger ... No.	19	22	41			213 7 9		
15½.	Ditto empty ,,	27	17	44	Total tollage of same month last year ...		199 2 0		
16.	Total registered tonnage, cargo Tons	69	192	261					
16½.	Ditto Govt. ,,	.....	4	4	<i>Memorandum of Tollage.</i>			
17.	Total registered tonnage, passenger Tons	421	471	892					
17½.	Ditto empty boats ,,	77	35	112	1. Balance not recovered on the 1st of the month ...		Rs. A. P.		
18.	Ton-mileage	6,784	8,364	15,148			8 11 4		
19.	Estimated value of cargo Rs.	2,306	8,843	11,149					
20.	Number of passengers ...	261	262	523	2. Tollage per month ...		213 7 9		
21.	Rafts, bamboos C. ft.	.....	.....	.....		
22.	Do., bullahs ,,	.....	.....	.....	3. Total ...		222 3	
23.	Estimated value of rafts Rs.	.....	.....	.....		
24.	Tollage on boats ,,	92-2-0	121-5-9	213-7-9	4. Amount credited in the accounts of the month ...		222 3		
25.	Compounded tollage on boats Rs.	.....	.....	.....		
26.	Tollage on rafts ,,	.....	.....	.....		
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-70	5. Balance due at the end of the month ...		0 0	
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.			REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
8	1. Grain ...	14	.....	14	874	14	874	
...	2. Cotton .....	.....	.....	.....	.....	.....	.....
...	3. Oilseeds .....	.....	.....	.....	.....	.....	.....
1	4. Salt ...	.....	4	4	488	4	488	
...	5. Piece-goods .....	.....	.....	.....	.....	.....	.....
...	6. Metal .....	.....	.....	.....	.....	.....	.....
2	7. Building materials .....	.....	4	4	139	...	...
4	8. Miscellaneous ...	.....	26	26	3,950	26	3,950	
...	9. Fuel .....	.....	.....	.....	.....	.....	.....
...	10. Timber .....	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
15	12. Total ...	14	34	48	5,451	44	5,312		
68 & 1 raft.	13. Total of same month last year ...	{ 159	61½ & 90 c. ft.	220½ & 90 o. ft.	{ 14,339	{ 187½ & 90 c. ft.	{ 13,950		

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	8	7	15	Total tollage of month— 24 + 25 + 26 ...	167 14 6
15. Total number of boats plying passenger No.	17	19	36	Total tollage of same month last year ...	102 10 0
15½. Ditto empty ,,	9	9	18		
16. Total registered tonnage, cargo Tons	33	47	80		
16½. Ditto Govt. ditto ,,	.....	13	13	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger Tons	403	444	847		
17½. Ditto empty boats ,,	33	20	53	1. Balance not recovered on the 1st of the month ...	.....
18. Ton-mileage ...	8,931	9,956	18,887	2. Tollage per month ...	167 14 6
19. Estimated value of cargo Rs.	874	4,577	5,451	3. Total ...	167 14 6
20. Number of passengers ...	214	143	357	4. Amount credited in the accounts of the month ...	167 14 6
21. Rafts, bamboos No.	.....	.....	.....	5. Balance due at the end of the month ...	.....
22. Do., bullahs C. ft	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	78-2-0	89-12-6	167-14-6		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-70		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

JAJEPORÉ CANAL.

LENGTH OF CANAL OPEN, $6\frac{1}{2}$ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
36	1. Grain ...	...	35	35	1,918	35	1,918	
1	2. Cotton ...	...	1	1	65	1	65	
1	3. Oilseeds ...	...	1	1	40	1	40	
...	4. Salt ...	...	...	...	...	...	...
...	5. Piece-goods ...	...	...	...	...	...	...
...	6. Metal ...	...	...	...	...	...	...
1	7. Building materials ...	...	7	7	15	7	15	
8	8. Miscellaneous ...	1	7	8	888	8	888		
1	9. Fuel ...	...	5	5	40	5	40	
30 rafts.	10. Timber ...	...	6,894 c. ft.	6,894 c. ft.	841	6,894 c. ft.	841	
...	11. Bamboos ...	...	...	...	...	...	...
48 & 30 rafts.	12. Total ...	{ 1	55& 6,894 c. ft.	56& 6,894 c. ft.	3,807	{ 56& 6,894 c. ft.	3,807		
21 & 5 rafts.	13. Total of same month last year.	{ ...	12& 1,980 c. ft.	12& 1,980 c. ft.	{ 1,471	{ 12& 1,980 c. ft.	{ 1,471		
		Up.	Down.	Total.				Rs. A. P.	
14. Total number of boats ply- ing cargo No.		4	44	48					
15. Total number of boats ply- ing passenger No.		2	3	5	Total tollage of month— 24 + 25 + 26 ...			35 6 0	
15½. Ditto empty "		20	1	21	Total tollage of same month last year ...			8 15 0	
16. Total registered tonnage, cargo Tons		8	95	103					
16½. Ditto Govt. "		....	....	....	<i>Memorandum of Tollage.</i>			
17. Total registered tonnage, passenger Tons		15	25	40				Rs. A. P.	
17½. Ditto empty "		36	1	37	1. Balance not recovered on the 1st of the month ...				
18. Ton-mileage ...		354	732	1,086	2. Tollage per month ...			8 7 6	
19. Estimated value of cargo Rs.		228	2,738	2,966	3. Total ...				
20. Number of passengers ...		6	18	24	4. Amount credited in the accounts of the month ...				
21. Rafts, bamboos C. ft.		....	....	....	5. Balance due at the end of the month ...			
22. Do., bullahs "		....	6,894	6,894				
23. Estimated value of rafts Rs.		....	841	841				
24. Tollage on boats "		6-0-9	12-11-0	18-11-9					
25. Compounded tollage on boats Rs.		....	....	....		
26. Tollage on rafts "		....	16-10-3	16-10-3				
27. Total tollage on boats per ton-mile Rs.		....	....	0-0-3-30				
28. Total tollage on rafts per 100 cubic feet Rs.		....	....	0-3-10				

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
689	1. Grain ...	4,072	303	4,375	2,74,988	4,375	2,74,988	
2	2. Cotton ...	.....	3	3	1,302	3	1,302	
33	3. Oilseeds ...	133	123	256	27,406	256	27,406	
127	4. Salt ...	.....	1,301	1,301	1,31,947	1,301	1,31,947	
26	5. Piece-goods ...	47	55	102	2,62,400	102	2,62,400	
13	6. Metal ...	17	43	60	40,942	60	40,942	
43	7. Building materials ...	162	77	239	2,225	239	2,225	
432	8. Miscellaneous ...	868	759	1,627	4,62,926	1,627	4,62,926	
42	9. Fuel ...	158	81	239	2,150	239	2,150	
52 rafts	10. Timber ...	12,635 c. ft.	24 c. ft.	12,659 c. ft.	10,953	12,659 c. ft.	10,953	
5 „	11. Bamboos ...	2,750 „	.....	2,750 „	345	2,750 „	345	
1,407 & 57 rafts.	12. Total ...	{ 5,457 & 15,385 c. ft.	2,745 & 24 c. ft.	8,202 & 15,409 c. ft.	{ 12,17,584	{ 8,202 & 15,409 c. ft.	{ 12,17,584	
1,902 & 50 rafts.	13. Total of same month last year.	{ 7,412 & 13,839 c. ft.	4,141	11,553 & 13,839 c. ft.	{ 13,33,344	{ 11,553 & 13,839 c. ft.	{ 13,33,344	

		Up.	Down.	Total.			Rs. A. P.
					Total tollage of month— 24 + 25 + 26	... 8,181 14 0	
14. Total number of boats plying cargo	No.	872	535	1,407			
15. Total number of boats plying passenger	No.	612	717	1,329			
15½. Ditto empty	„	409	479	888	Total tollage of same month last year	... 10,571 10 3	
16. Total registered tonnage, cargo	Tons	12,377	6,898	19,275			
17. Total registered tonnage, passenger	Tons	3,868	3,538	7,406			
17½. Ditto empty	„	1,737	2,212	3,949			
18. Ton-mileage	...	308,100	202,389	510,489	1. Balance not recovered on the 1st of the month ...	... 4,991 6 1	
19. Estimated value of cargo	Rs.	5,71,486	6,34,800	12,06,286	2. Tollage per month	... 8,181 14 0	
20. Number of passengers	...	6,745	9,001	15,746	3. Total	... 13,173 4 1	
21. Rafts, bamboos	C. ft.	2,750	.....	2,750			
22. Do., bullahs	„	12,635	24	12,659			
23. Estimated value of rafts	Rs.	11,207	91	11,298			
24. Tollage on boats	„	4,867-15-3	3,022-15-6	7,890-14-9			
25. Compounded tollage on boats	Rs	.....	.....	.....	4. Amount paid into treasury during the month	... 6,097 1 0	
26. Tollage on rafts	„	290-7-3	0-8-0	290-15-3			
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-2-9			
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	1-14-3	5. Balance due at the end of the month	... 7,076 3 1	

HIDGELKE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
278	1. Grain ...	2,066	.....	2,066	97,375	2,066	97,375	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ...	20	3	23	2,740	23	2,740	
40	4. Salt ...	.....	403	403	44,990	403	44,990	
6	5. Piece-goods ...	.....	28	28	19,625	28	19,625	
5	6. Metal ...	32	1	33	4,650	33	4,650	
4	7. Building materials ...	.....	52	52	920	52	920	
560	8. Miscellaneous ...	629	494	1,123	84,842	1,123	84,842	
3	9. Fuel ...	.....	21	21	150	21	150	
3 rafts	10. Timber ...	.....	214 c. ft.	214 c. ft.	213	214 c. ft.	213	
1 raft	11. Bamboos ...	.....	25 "	25 "	1	25 "	1	
901 & 4 rafts.	12. Total ...	{ 2,747	1,002 & 239 c. ft.	3,749 & 239 c. ft. }	2,55,506	{ 3,749 & 239 c. ft. }	{ 2,55,506 }	
1,084 & 3 rafts.	13. Total of same month last year.	{ 2,975 & 203 c. ft.	1,142 & 36 c. ft.	4,117 & 239 c. ft. }	2,57,640	{ 4,089 & 239 c. ft. }	{ 2,57,240 }	
14.	Total number of boats pl. cargo No.	Up.	Down.	Total.				Rs. A. P.
		447	454	901				Total tollage of month— 24 + 25 + 26 ... 3,164 2 9
15.	Total number of boats pl. passenger No.	48	45	93				Total tollage of same month last year 3,509 14 3
16.	Total registered tonnage, cargo Tons	6,181	3,882	10,063				
17.	Total registered tonnage, passenger Tons	270	296	566				
18.	Ton-mileage	105,373	75,365	1,80,738				
19.	Estimated value of cargo Rs.	1,17,156	1,38,136	2,55,292				
20.	Number of passengers ...	497	491	988				
21.	Rafts, bamboos C. ft.	.....	25	25				1. Balance not recovered on the 1st of the month ... 2,358 13 6
22.	Do., bullahs "	.....	214	214				2. Tollage per month ... 3,164 2 9
23.	Estimated value of rafts Rs.	.....	214	214				
24.	Tollage on boats ,,	1,843-11-9	1,306-12-6	3,150-8-3				
25.	Compounded tollage on boats Rs.	.....	12-5-6	12-5-6				
26.	Tollage on rafts ,,	.....	1-5-0	1-5-0				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-9				
								5. Balance due at the end of the month 1,129 10 9

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value. Rupees.	
		Up.	Down.	Total.		Tons.	Rupees.	
39	1. Grain ...	.....	599	599	48,136	599	48,136	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	3	61	64	8,479	64	8,479	
...	4. Salt ...	71	.....	71	7,952	71	7,952	
15	5. Piece-goods, ...	89	11	100	21,515	100	21,515	
...	6. Metal ...	5	1	6	1,154	6	1,154	
13	7. Building materials ...	59	52	111	1,934	62	724	
31	8. Miscellaneous ...	181	150	331	63,451	331	63,451	
...	9. Fuel rafts ...	.....	10	10	20	10	20	
...	10. Timber "	.....	7	7	45	7	45	
...	11. Bamboos "	.....	9	9	200	9	200	
101	12. Total ...	408	900	1,308	1,52,886	1,259	1,51,676	
135	13. Total of same month last year ...	435	994	1,429	1,50,000	1,326	1,49,240	

	Up.	Down.	Total.	Rs. A. P.
14. Total number of boats plying cargo No.	36	65	101	Total tollage of month— 24 + 25 + 26 ... 1,286 13 3
15. Total number of boats plying passenger No.	5	6	11	
15½. Ditto of empty boats "	64	11	75	Total tollage of same month last year ... 1,723 0 6
16. Total registered tonnage, cargo Tons	592	1,274	1,866	
17. Total registered tonnage, passenger Tons	166	207	373	<i>Memorandum of Tollage.</i>
17½. Ditto empty boats "	274	52	326	
18. Ton-mileage ...	55,890	80,672	136,562	Rs. A. P.
19. Estimated value of cargo Rs.	39,619	1,13,002	1,52,621	1. Balance not recovered on the 1st of the month ... 173 10 0
20. Number of passengers ...	255	392	647	2. Tollage per month ... 1,286 13 3
21. Rafts, bamboos C. ft.	.....	1,330	1,330	
22. Do., bullahs "	.....	1,242	1,242	
23. Estimated value of rafts Rs.	.....	265	265	3. Total ... 1,460 7 3
24. Tollage on boats "	406-10-3	718-7-0	1,125-1-3	
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0	
26. Tollage on rafts "	.....	11-12-0	11-12-0	4. Amount credited in the accounts of the month ... 1,370 1 6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·7	
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-7-3	5. Balance due at the end of the month 90 5 9

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts,	DESCRIPTION,	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
74	1. Grain ...	228	499	727	46,929	727	46,929		
...	2. Cotton ...	.....	.....	.....	.....	.....	....
6	3. Oilseeds ...	.....	65	65	6,280	65	6,280	
27	4. Salt ...	306	.....	306	23,748	306	23,748	
...	5. Piece-goods ...	18	1	19	58,950	19	58,950		
...	6. Metal ...	2	5	7	2,085	7	2,085		
2	7. Building materials ...	4	4	8	1,310	2	280		
37	8. Miscellaneous ...	19	357	376	19,678	308	19,437		
...	9. Fuel ...	.....	.....	.....	.....	.....	....
...	10. Timber ...	.....	.....	.....	.....	.....	....
...	11. Bamboos ...	.....	.....	.....	.....	.....	....
146	12. Total ...	577	931	1,508	1,58,980	1,434	1,57,709		
235	13. Total of same month last year.	578	1,739	2,317	1,38,757	1,882	1,37,594		

	Up.	Down.	Total.	Rs. A. P.
14. Total number of boats plying cargo No.	57	89	146	Total tollage of month— 24 + 25 + 26 ... 1,687 11 0
15. Total number of boats plying passenger No.	3	3	6	Total tollage of same month last year ... 1,673 14 6
15½. Total number of empty boats No.	79	9	88	
16. Total registered tonnage, cargo Tons	948	1,700	2,648	
17. Total registered tonnage, passenger Tons	80	74	154	Memorandum of Tollage.
17½. Total registered tonnage, empty Tons	385	53	438	Rs. A. P.
18. Ton-mileage ...	58,102	75,950	134,052	1. Balance not recovered on the 1st of the month 34 0 9
19. Estimated value of cargo Rs.	98,920	60,060	1,58,980	
20. Number of passengers ...	902	945	1,847	2. Tollage per month ... 1,687 11 0
21. Rafts, bamboos C.ft.	.....	.....	.....
22. Do., bullahs ,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....	3. Total ... 1,721 11
24. Tollage on boats ,	285-5-6	690-5-6	975-11-0	
25. Compounded tollage on boats Rs.	356-0-0	356-0-0	712-0-0	4. Amount credited in the accounts of the month 1,632 7 6
26. Tollage on rafts ,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-41	
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....	5. Balance due at the end of the month ... 89 4 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.	
		Quantity—Tons.			Value, Rupees.	Quantity. Tons.		
		Up.	Down.	Total.				
59	1. Grain ...	250	556	806	42,447	806	42,447	
...	2. Cotton ...	.....	.....	.....	.....	....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	....	.....
1	4. Salt ...	8	.....	8	666	8	666
1	5. Piece-goods ...	6	.....	6	2,900	6	2,900
2	6. Metal ...	24	.....	24	3,040	14	2,940
6	7. Building-materials	32	51	83	490	....	...
46	8. Miscellaneous ...	11	532	543	23,217	543	23,217	
4	9. Fuel ...	.....	87	87	762	87	762
...	10. Timber ...	.....	.....	.....	....	....	.....
...	11. Bamboos ...	.....	.....	.....	....	....	.....
119	12. Total ...	331	1,226	1,557	73,522	1,464	72,932	
63	13. Total of same month last year.	280	539	819	28,974	513	27,516	
		Up.	Down.	Total.				
14.	Total number of boats plying cargo No.	27	92	119			Rs. A. P.	
15.	Total number of boats plying passenger No.	8	10	18	Total tollage of month—			
15½.	Ditto empty boats ,,	99	8	107	24 + 25 + 26 ...		1,020 11 6	
16.	Total registered tonnage, cargo Tons	431	1,628	2,059	Total tollage of same month last year ...			
17.	Total registered tonnage, passenger Tons	216	246	462			397 3 0	
17½.	Ditto empty ,,	399	32	431				
18.	Ton-mileage ...	33,422	52,855	86,277	<i>Memorandum of Tollage.</i>			
19.	Estimated value of cargo Rs.	20,619	52,903	73,522				
20.	Number of passengers ...	580	705	1,285	1. Balance not recovered on the 1st of the month ...		Rs. A. P.	
21.	Rafts, bamboos C. ft.	.....	.....	...			23 8 6
22.	Do., bullahs ,,	.....	.....	....	2. Tollage per month ...		
23.	Estimated value of rafts Rs.	.....	.....	...			1,020 11 6
24.	Tollage on boats ,,	233-8-6	573-3-0	806 11-6	3. Total ...			
25.	Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0			1,044 4 0	
26.	Tollage on rafts ,,	.....	.....	....	4. Amount credited in the accounts of the month ...		
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2 2			987 0 0
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	....	5. Balance due at the end of the month ...		
				....			57 4 0

ABSTRACT FOR THE MONTH OF SEPTEMBER 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
<i>Orissa Circle.</i>													
Taldunda Canal System ...	103	8	6	1,612	13	2	138	14	3	2,404	7	7	
Kendrapara Canal System	7,059	7	9	33,382	3	0	3,544	6	7	21,261	5	8	
High Level, Range I ...	988	2	0	4,851	11	9	575	4	6	3,398	12	8	
Ditto " II ...	213	7	9	1,642	14	3	199	2	0	1,477	0	3	
Ditto " III ...	167	14	6	1,213	5	3	102	10	0	736	15	9	
Jajepore Canal ...	35	6	0	135	9	10	8	15	0	44	0	8	
Total Orissa Circle ...	8,567	14	6	42,838	9	3	4,569	4	4	29,322	10	7	
<i>South-Western Circle.</i>													
Midnapore Canal ...	8,181	14	0	61,027	3	9	10,571	10	3	75,365	1	6	
Hidgellee Tidal Canal ...	3,164	2	9	17,918	1	9	3,509	14	3	27,987	7	9	
Total South-Western Circle	11,346	0	9	78,945	5	6	14,081	8	6	1,03,352	9	3	
<i>Sone Circle.</i>													
Patna Canal System ...	1,286	13	3	11,826	6	11	1,723	0	6	14,342	4	3	
Arrah ditto ...	1,687	11	0	10,574	8	6	1,673	14	6	10,018	3	5	
Buxar ditto ...	1,020	11	6	4,953	1	9	397	3	0	3,672	14	5	
Total Sone Circle ...	3,995	3	9	27,354	1	2	3,794	2	0	28,033	6	1	
GRAND TOTAL ...	23,909	3	0	1,49,137	15	11	22,444	14	10	1,60,708	9	11	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,420 10 10
Total Orissa Circle ...	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,420 10 10

TOTAL NAVIGATION RECEIPTS.

CANAL	EARNINGS, 1890-91.						EARNINGS, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals ...	9,432	15	11	48,055	4	6	5,231	15	11	32,743	5	5	
Midnapore Canal ...	8,181	14	0	61,027	3	9	10,571	10	3	75,365	1	6	
Hidgellee Tidal Canal ...	3,164	2	9	17,918	1	9	3,509	14	3	27,987	7	9	
Sone Canals ...	3,995	3	9	27,354	1	2	3,794	2	0	28,033	6	1	
Total ...	24,774	4	5	1,54,354	11	2	23,107	10	5	1,64,129	4	9	

CALCUTTA,

The 23rd December 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of September 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Avenue discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.	Rainfall, 1889-90.	REMARKS.			
								Five years, all crops.	Five years, kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot weather.	Total.	GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.		
ORISSA	Cuttack	Taldunda, 1st reach	C. ft. 1,342	C. ft. 526	C. ft. 95	10,730	9,501	.....	10,296	.....	423	13	.....	436	10,732	22·25	55·43	5·47	51·74	
		Ditto, 2nd	566	153	.....	29,741	27,329	.....	29,599	.....	128	14	.....	142	29,741	{ 16·32	51·62	3·55	47·60	
		Machgong	776	234	186	.....	.....	.....	.....	.....	.....	.....	.....	.....	20·30	56·35	3·65	52·38		
		Kendrapara	1,067	942·83	779·82	51,253	47,428	.....	51,720	.....	3,318	35	.....	3,353	55,073	17·69	40·03	2·73	48·88	
		Gobri	372·82	93·68	66·93	4,703	1,844	.....	2,291	.....	208	1	.....	269	2,500	16·65	44·54	5·79	52·12	
		Do. extension	648	97·01	69·05	8,578	1,840	.....	2,147	.....	5	.....	.....	5	2,152	No gauge fixed.				
		Patamundi	885	333·65	236·64	12,489	7,359	.....	10,664	.....	60	5	.....	60	10,724	.....				
	Balasore	High Level, Range I	698	277·64	269·72	20,391	17,499	.....	25,259	.....	91	5	.....	96	25,355	11·10	39·55	9·53	53·77	
		Ditto, ditto II	7716	99	95	2,526	2,359	.....	2,500	.....	29	.....	.....	29	2,529	.....				
		Ditto, ditto III	7716	457	434	36,237*	35,749	.....	39,581	.....	.....	141	.....	141	39,725	9·78	36·78	5·59	30·35	
				Total	171,633	150,905	174,060	4,282	209	4,471	178,531	
				Total of the corresponding period of last year	154,090	42	5,895	156	6,093	160,183	
OUTH-WESTERN.	Midnapore	Midnapore	1,411	531	488	73,858	60,775	.....	71,897	.....	.....	.....	.....	.....	71,897	9·65	44·49	6·34	40·61	28 days discharging.
		Panckoorah	532	67	48	4,615	3,909	.....	4,949	43	.....	.....	.....	43	4,992	13·47	44·37	7·72	45·09	19 days discharging.
		Tidal reaches, Ranges I-II .....	.....	.....	.....	363	357	.....	386	.....	.....	.....	.....	.....	386	.....	.....	.....	.....
				Total	78,836	64,141	77,232	43	43	77,275	
				Total of the corresponding period of last year	63,092	63,092	
SONG	Shahabad	Western Main	4,842	2,473	102	10,639	13,125	11,631	1,713	234	4	309	2,270	13,901	{ 9·09	48·21	8·17	44·07	
		Buxar	1,226	693	315	43,823	50,381	51,666	2,783	1,169	71	2,596	6,631	58,197					
		Arrah	2,000	1,568	1,400	110,732	112,078	92,781	16,680	2,217	113	5,669	24,079	117,480	8·21	59·68	5·44	39·39	
		Eastern Main	1,466	1,103	949	1,446	1,183	1,484	71	8	1	80	1,564	{ 6·15	57·34	10·21	45·67	
	Patna and Gya.	Patna	49,895	45,911	40,446	14,712	435	203	15,855	55,801	
		Total	216,555	222,848	198,008	35,976	4,003	392	8,544	48,915	246,923	
		Total of the corresponding period of last year .....	.....	.....	.....	.....	175,332	.....	59,891	.....	4,638	1,160	11,944	77,643	252,974	.....	.....	.....	.....
		Grand Total	467,024	437,807	198,008	231,293	36,619	4,263	4,212	392	8,544	63,429	502,729	
				Grand Total of the corresponding period of last year	175,332	217,182	59,893	5,895	4,794	1,169	11,944	83,735	476,249	

* This area has been reduced according to the revised permits received from the Revenue Department.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CALCUTTA,
The 22nd December 1890.

PUBLIC WORKS DEPARTMENT.—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of September 1890.

DATE.	Miles. [Miles.]	RIVER GANGES.										RIVER BHAGIRUTHEE.		RIVER JELLINGHEE.		RIVER BRAHMAPOOTRA.								
		Mirzapur.		Benares.		Buxar.		Dinspur.		Moughyr.		Sahebgunge.		Rampore Beuleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatta.		
		From Allah- bad ...	90	From Allah- bad ...	134	From Mirza- pur ...	48	From Benares	90	From Benares	177	From Benares	84	From Benares	471	From Sahab- gunge ...	90	From Rampore Beuleah ...	120					
1st	...	22°08'	21°30'	20°50'	21°30'	21°50'	19°55'	27°50'	161°73'	23°67'	125°59'	24°42'	25°93'	67°83'	22°00'	30°94'	63°82'	30°29'	34°59'	27°80'	178°56'			
2nd	...	20°17'	22°39'	18°10'	21°30'	19°53'	18°88'	27°10'	161°53'	21°00'	124°53'	25°92'	91°92'	25°38'	67°83'	22°08'	31°02'	29°83'	63°57'	30°15'	34°55'	28°00'	175°76'	
3rd	...	19°42'	22°54'	17°00'	21°30'	15°38'	18°48'	26°89'	161°03'	22°67'	124°52'	23°30'	91°50'	25°09'	67°01'	22°25'	31°19'	21°54'	63°24'	30°17'	34°47'	28°21'	176°06'	
4th	...	19°42'	22°54'	16°50'	21°33'	17°50'	18°55'	20°15'	160°34'	22°17'	124°02'	22°92'	90°92'	24°67'	66°67'	22°25'	31°19'	21°25'	61°00'	29°96'	31°21'	28°50'	177°36'	
5th	...	19°25'	22°57'	16°23'	21°05'	16°83'	18°88'	25°23'	159°45'	21°17'	123°02'	22°30'	90°50'	24°31'	66°11'	22°35'	31°19'	22°88'	62°62'	29°79'	31°09'	28°80'	177°46'	
6th	...	18°47'	22°49'	16°09'	21°20'	16°42'	18°47'	24°40'	158°65'	19°67'	121°51'	21°75'	89°73'	23°92'	65°92'	22°33'	31°27'	22°54'	61°39'	29°44'	33°72'	28°60'	177°36'	
7th	...	18°25'	22°47'	15°91'	21°21'	16°00'	18°05'	23°60'	157°83'	18°15'	120°60'	20°53'	88°53'	23°8	65°18'	22°33'	31°27'	24°25'	61°90'	29°68'	33°38'	28°50'	177°06'	
8th	...	17°48'	22°44'	15°53'	21°03'	15°25'	18°49'	23°00'	157°23'	18°00'	119°35'	20°00'	88°01'	22°50'	64°51'	22°08'	31°02'	21°67'	61°41'	28°67'	32°97'	28°20'	176°96'	
9th	...	17°59'	22°72'	15°66'	21°46'	14°59'	18°55'	22°25'	157°48'	17°35'	119°18'	19°25'	87°25'	21°83'	63°88'	21°92'	30°86'	27°09'	60°74'	24°35'	32°65'	27°40'	178°16'	
10th	...	16°73'	22°37'	15°30'	21°30'	13°59'	18°25'	21°60'	155°83'	17°00'	118°85'	18°58'	83°88'	21°01'	63°30'	21°67'	30°61'	26°17'	59°91'	27°93'	32°22'	27°20'	175°96'	
11th	...	16°17'	22°39'	14°25'	21°05'	13°17'	18°22'	21°10'	155°33'	16°42'	118°27'	18°00'	86°00'	20°33'	62°33'	21°33'	30°27'	25°25'	58°69'	27°42'	31°72'	26°70'	175°46'	
12th	...	16°47'	21°89'	13°66'	21°46'	12°42'	18°47'	16°85'	161°03'	16°03'	117°83'	17°42'	85°42'	18°07'	61°47'	21°01'	29°91'	24°25'	51°99'	27°00'	31°30'	26°40'	175°16'	
13th	...	15°09'	21°22'	13°00'	20°81'	12°08'	18°13'	21°39'	154°53'	15°33'	117°68'	17°00'	85°00'	19°09'	61°03'	20°75'	24°69'	23°23'	57°07'	24°46'	56°76'	26°40'	174°76'	
14th	...	15°09'	21°22'	13°00'	20°80'	11°75'	18°80'	19°39'	151°13'	15°42'	117°27'	16°31'	84°50'	14°54'	60°50'	20°58'	29°52'	22°50'	56°24'	25°96'	30°26'	25°50'	174°26'	
15th	...	15°83'	22°05'	15°60'	20°80'	12°17'	181°22'	19°39'	151°13'	14°92'	116°77'	16°17'	84°17'	18°08'	61°48'	20°42'	29°38'	21°75'	54°42'	21°46'	24°76'	25°00'	174°76'	
16th	...	17°54'	22°72'	15°66'	21°46'	14°25'	18°30'	155°23'	14°93'	116°17'	17°67'	81°67'	17°71'	17°71'	20°17'	29°11'	21°00'	54°74'	24°58'	28°88'	34°53'	178°46'		
17th	...	20°33'	23°55'	18°00'	24°89'	16°50'	18°55'	22°50'	156°5	13°58'	117°43'	15°83'	83°83'	17°46'	59°46'	19°67'	28°42'	54°10'	21°81'	28°13'	32°10'	172°41'		
18th	...	19°31'	23°05'	19°00'	21°80'	18°58'	18°75'	24°50'	158°73'	16°75'	116°60'	16°43'	84°38'	17°63'	49°63'	19°33'	28°27'	19°83'	53°57'	23°09'	27°39'	23°40'	172°16'	
19th	...	17°67'	22°89'	17°50'	21°30'	18°83'	18°85'	26°23'	1-0°48'	18°17'	120°02'	17°25'	85°25'	18°21'	60°21'	19°00'	27°24'	52°91'	22°50'	26°80'	22°70'	171°46'		
20th	...	15°67'	21°89'	17°40'	21°30'	17°15'	18°54'	26°50'	160°73'	19°54'	121°35'	18°25'	83°5	19°04'	61°04'	18°83'	27°77'	20°93'	53°74'	21°83'	26°13'	22°40'	171°16'	
21st	...	15°07'	21°89'	16°09'	21°50'	16°58'	18°63'	26°30'	160°53'	20°00'	121°81'	19°25'	87°25'	19°71'	61°71'	18°75'	27°63'	21°75'	54°90'	21°25'	23°55'	22°50'	171°26'	
22nd	...	16°67'	22°89'	15°00'	21°80'	16°08'	18°13'	26°00'	161°13'	19°92'	121°77'	19°44'	87°12'	20°08'	62°04'	18°75'	27°49'	22°60'	56°24'	21°17'	23°47'	21°30'	171°06'	
23rd	...	20°09'	22°32'	16°00'	21°80'	16°54'	18°55'	27°10'	161°33'	18°25'	121°10'	19°42'	87°42'	20°42'	62°42'	18°92'	27°84'	22°75'	56°49'	21°17'	23°47'	21°60'	170°33'	
24th	...	21°09'	22°72'	18°00'	21°80'	18°33'	18°33'	27°20'	161°43'	20°83'	122°68'	19°75'	87°92'	21°71'	62°71'	18°75'	27°69'	23°42'	57°16'	22°00'	58°30'	21°00'	169°78'	
25th	...	21°00'	22°72'	19°50'	21°34'	19°75'	18°89'	27°20'	161°41'	20°83'	122°68'	19°75'	87°92'	21°71'	62°71'	18°75'	27°69'	23°42'	57°16'	22°00'	58°30'	21°00'	169°78'	
26th	...	19°53'	22°53'	19°50'	21°30'	19°75'	18°89'	26°80'	161°03'	20°83'	121°68'	20°08'	88°05'	20°73'	63°75'	18°58'	27°52'	23°67'	57°41'	22°58'	26°88'	20°60'	169°35'	
27th	...	24°75'	23°07'	22°00'	21°80'	22°25'	21°13'	20°50'	160°73'	20°00'	121°85'	20°04'	88°08'	20°83'	62°83'	18°59'	27°44'	21°93'	57°63'	23°17'	27°67'	20°30'	169°06'	
28th	...	28°17'	23°43'	22°00'	22°80'	22°25'	21°13'	20°50'	162°33'	20°50'	122°35'	19°83'	87°63'	21°00'	63°00'	18°50'	27°44'	23°16'	58°32'	22°75'	28°05'	19°20'	167°98'	
29th	...	3°00'	23°42'	27°66'	22°46'	24°83'	19°88'	28°70'	162°93'	20°83'	122°68'	20°25'	83°25'	21°33'	63°33'	18°75'	27°69'	25°8	58°32'	24°50'	28°80'	18°30'	167°06'	
30th	...	27°30'	23°72'	27°00'	22°30'	25°33'	19°48'	28°20'	162°43'	22°00'	123°85'	20°75'	88°75'	21°22'	63°92'	18°75'	27°69'	25°58'	59°32'	21°67'	28°97'	18°70'	165°46'	

CALCUTTA,

The 23rd December 1890.

G. A. G. SHAWE,

Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
416	1. Grain ...	5,993	11	6,004	6,70,664	6,004	6,70,664		
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
24	3. Oilseeds ...	432	.....	432	47,600	432	47,600	
345	4. Salt ...	639	6,033	6,672	6,18,858	6,672	6,18,858		
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
6	6. Metal ...	.....	40	40	4,950	40	4,950	
105	7. Building materials	3,055	105	3,160	54,159	3,160	54,159		
3,414	8. Miscellaneous* ...	36,766	2,288	39,054	32,41,404	39,054	32,41,404		
549	9. Fuel ...	13,773	1,927	15,700	1,13,553	15,700	1,13,553		
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
4,859	12. Total ...	60,658	10,404	71,062	47,51,188	71,062	47,51,188		
3,738 3 rafts.	13. Total of same month last year.	{ 39,677 & 999 c. ft.	8,581	48,258 999 c. ft.	{ 42,45,641	{ 48,258 999 c. ft.	{ 42,45,641	* For details, see next page.	
		Up.	Down.	Total.					
14. Total number of boats plying cargo No.		4,254	605	4,859	Total tollage of month—		Rs. A. P.		
14a. Empty ...		1,931	627	2,558	24+25+26 ...		37,511 13 3		
15. Total number of boats plying passenger No.		601	14	615	Total tollage of same month last year ...		29,313 4 3		
16. Total registered tonnage, cargo Tons		141,626	26,582	168,208					
17. Total registered tonnage, passenger Tons		1,028	85	1,113	<i>Memorandum of Tollage.</i>				
18. Ton-mileage ...		1,255,665	265,820	1,521,485			Rs. A. P.		
19. Estimated value of cargo Rs.		38,62,540	8,88,648	47,51,188	1. Balance not recovered on the 1st of the month ...				
20. Number of passengers No.		2,238	69	2,307	2. Tollage per month ...		971 2 6		
21. Rafts, bamboos C. ft.		.....	.....	.....	3. Total ...		37,511 13 3	
22. Do., bullahs "		.....	.....	.....		
23. Estimated value of rafts Rs.		.....	.....	.....		
24. Tollage on boats "		30,978-1-9	6,533-11-6	37,511-13-3					
25. Compounded tollage on boats Rs.		.....	.....	.....	4. Amount paid into treasury during the month ...			
26. Tollage on rafts "		.....	.....	.....	5. Balance due at the end of the month ...		37,232 9 3	
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-4-73				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	.....			1,250 6 6	

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value. Rupees.	
		Up.	Down.	Total.		Tons.	Rupees.	
1,366	(a) Jute ...	31,085	7	31,092	21,76,400	31,092	21,76,400	
36	(b) Jaggery ...	335	.....	335	39,844	335	39,844	
9	(c) Sugar ...	55	.....	55	13,950	55	13,950	
5	(d) Tobacco ...	25	14	39	7,700	39	7,700	
928	(e) Fish ...	151	2	153	42,790	153	42,790	
27	(f) Hides ...	69	.....	69	15,550	69	15,550	
81	(g) Poultry ...	20	.....	20	12,852	20	12,852	
49	(h) Hay and straw ...	369	.....	369	7,746	369	7,746	
136	(j) Oil ...	.....	1,853	1,853	2,59,500	1,853	2,59,500	
45	(k) Earthenware ...	80	1	81	1,133	81	1,133	
732	(m) Other miscellaneous ...	4,577	411	4,988	6,63,939	4,988	6,63,939	
3,414	Total Miscellaneous...	36,766	2,288	39,054	32,41,404	39,054	32,41,404	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.	
		Quantity—Tons.			Value. Rupees.	Quantity. Tons.	Value. Rupees.		
		Up.	Down.	Total.					
1,565	1. Grain ...	4,519	.....	4,519	4,47,240	4,519	4,47,240	
6	2. Cotton ...	45	.....	45	22,860	45	22,860	
6	3. Oilseeds ...	124	.....	124	12,162	124	12,162	
68	4. Salt ...	646	292	938	87,019	938	87,019		
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
751	7. Building materials ...	8,483	.....	8,483	30,882	8,483	30,882	
1,351	8. Miscellaneous* ...	6,527	67	6,594	7,11,750	6,594	7,11,750		
216	9. Fuel ...	2,674	.....	2,674	20,190	2,674	20,190	
12 rafts.	10. Timber ...	25,313 c. ft.	675 c. ft.	25,988 c. ft.	64,970	25,988 c. ft.	64,970		
2 "	11. Bamboos ...	78 "	.....	78 "	10	78 "	10	
3,963 & 14 rafts.	12. Total ...	{ 23,018 & { 25,391 c. ft.	359 & 675 c. ft.	23,377 & 26,066 c. ft.	{ 13,97,083	{ 23,377 & { 26,066 c. ft.	{ 13,97,083		
3,179 & 8 rafts.	13. Total of same month last year ...	{ 15,571 & { 10,499 c. ft.	261 & 624 c. ft.	15,832 & 11,123 c. ft.	{ 10,56,443	{ 15,832 & { 11,123 c. ft.	{ 10,56,443		

		Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo ... No.		3,914	49	3,963	Total tollage of month— 24 + 25 + 26 ...	9,232 9 9
14a. Empty ...		1,163	302	1,465		
15. Total number of boats plying passenger ... No.		411	4	415	Total tollage of same month last year ...	7,349 14 3
16. Total registered tonnage, cargo ... Tons		58,203	2,463	60,666	<i>Memorandum of Tollage.</i>	
17. Total registered tonnage, passenger ... Tons		846	14	860		Rs. A. P.
18. Ton-mileage ...		462,593	39,408	502,001	1. Balance not recovered on the 1st of the month ...	
19. Estimated value of cargo Rs.		12,96,922	35,181	13,32,103	2. Tollage per month ...	366 15 0
20. Number of passengers No.		9,149	19	9,168	3. Total ...	9,232 9 9
21. Rafts, bamboos C. ft.		78	.....	78		
22. Do., bullahs ...		25,313	675	25,988	4. Amount paid into treasury during the month ...	9,599 8 9
23. Estimated value of rafts Rs.		63,243	1,737	64,980		
24. Tollage on boats ...		8,577-2-3	607-2-6	9,184-4-9		
25. Compounded tollage on boats ... Rs.		.....	.....	.....
26. Tollage on rafts ...		46-1-0	2-4-0	48-5-0		
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-51		
28. Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	0-2-11	5. Balance due at the end of the month ...	288 5 6

* For details, see next page.

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.					PRIVATE.		REMARKS	
		Quantity—Tons.			Value. Rupees.	Quantity.	Value Rupees.			
		Up.	Down.	Total.						
84	(a) Jute ...	399	.....	399	27,925	399	27,925		
76	(b) Jaggery ...	524	9	533	63,431	533	63,431			
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
15	(d) Tobacco ...	158	.....	158	30,975	158	30,975		
112	(e) Fish ...	8	1	9	2,801	9	2,801			
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
16	(g) Poultry ...	7	.....	7	1,548	7	1,548		
511	(h) Hay and straw...	776	.....	776	16,294	776	16,294		
72	(j) Oil ...	815	32	847	1,18,625	847	1,18,625			
115	(k) Earthenware ...	97	6	103	1,435	103	1,435			
350	(m) Other miscellaneous.	3,743	19	3,762	4,48,716	3,762	4,48,716			
1,351	Total Miscellaneous...	6,527	67	6,594	7,11,750	6,594	7,11,750			

ABSTRACT FOR THE MONTH OF OCTOBER 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	TRAFFIC, 1890-91.				TRAFFIC, 1889-90.				
	During the month.		To end of the month.		During the month.		To end of the month.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	37,511	13	3	1,57,444	0	6	29,313	4	3
Tolly's Nullah ...	9,232	9	9	57,375	7	9	7,349	14	3
Total ...	46,744	7	0	2,14,819	8	3	36,663	2	6

CALCUTTA,
The 22nd December 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 20th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 20TH DECEMBER 1890.			WEEK ENDING SATURDAY, THE 21ST DECEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
Rice and paddy ...	1,479	1,12,855	1,555	1,615	1,23,283	1,681
Jute ...	299	1,60,159	2,932	343	2,02,650	3,6-7
Firewood ...	158	1,06,800	1,572	128	86,850	1,269
Other articles ...	1,055	2,36,695	3,814	996	2,17,070	3,554
Total ...	2,991	6,16,509	9,873	3,082	6,29,853	8,002

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	230,707	Rs. A. P. 2,75,646 8 0	Mds. S. 23,51,971 20	Rs. A. P. 6,22,827 8 0	Rs. A. P. 16,337 7 0	Rs. A. P. 9,14,811 7 0	Rs. A. P. 71,604 2	Rs. A. P. 95,181 2	Rs. A. P. 160,845 1
Or per mile of railway ...	180 11 1		.....	498 4 6	10 11 4	599 10 11	.....	.....	.....
For previous 23 weeks of half-year ...	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,606 12 5	1,67,01,489 12 5	1,510,671 2	1,700,016	3,276,687 2
Total for 24 weeks ...	5,473,375	60,17,873 6 0	4,60,02,760 10	1,12,10,483 10 0	3,87,944 3 5	1,78,16,301 3 5	1,582,395	1,801,197 2	3,445,533 2
COMPARISON.									
Total for corresponding week of previous year ...	233,323	Rs. A. P. 3,07,230 13 8	Mds. S. 24,33,915 20	Rs. A. P. 6,47,770 1 9	Rs. A. P. 10,212 9 2	Rs. A. P. 9,44,727 6 8	Rs. A. P. 67,449	Rs. A. P. 89,680	Rs. A. P. 157,129
Per mile of railway corresponding week of previous year ...	.....	201 6 4	.....	424 10 2	-6 11 1	619 6 5	.....	.....	.....
Total to corresponding date of previous year ...	5,786,816	65,08,665 7 7	5,11,09,200 0	1,16,54,085 10 3	3,75,764 3 2	1,85,38,515 5 0	1,550,636	1,941,631	3,521,667

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts from troop extra and mule special trains.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1882.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
1,525½	Rs. 9,44,727	Rs. 619	1,525½	Rs. 9,14,811	Rs. 600	1,525½	Rs. 3,05,65,267	Rs. 542	1,525½	Rs. 2,86,48,691	Rs. 508	.....	Rs. 19,16,576

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	10,406	Rs. A. P. 5,279 0 0	Mds. S. 50,731 10	Rs. A. P. 3,518 0 0	Rs. A. P. 88 7 0	Rs. A. P. 8,835 7 0	Rs. A. P. 1,698	Rs. A. P. 696	Rs. A. P. 5,294
Or per mile of railway ...	182	12 4 8	887 0	61 8 0	0 10 0	154 7 5	.....	.....	.....
For previous 23 weeks of half-year ...	303,245	1,75,028 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,818 10 0	33,030 2	12,863	45,893 2
Total for 24 weeks ...	313,651	1,80,907 14 0	8,76,644 0	57,971 15 0	804 4 0	2,39,684 1 0	34,728 2	13,559	48,287 2
COMPARISON.									
Total for corresponding week of previous year ...	10,962 1	Rs. A. P. 6,911 15 10	Mds. S. 39,902 30	Rs. A. P. 2,794 1 0	Rs. A. P. 42 3 0	Rs. A. P. 8,748 3 10	Rs. A. P. 1,901	Rs. A. P. 1,004	Rs. A. P. 2,905
Per mile of railway corresponding week of previous year ...	192	103 5 8	697 30	48 13 7	0 11 10	152 15 1	.....	.....	.....
Total to corresponding date of previous year ...	329,828	1,53,882 11 8	10,77,467 30	55,360 4 0	1,644 14 3	2,40,837 13 11	37,941	17,926	55,866

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1882.

	RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
57½	Rs. 8,743	Rs. 153	57½	Rs. 8,835	Rs. 154	57½	Rs. 3,54,884	Rs. 168	57½	Rs. 3,68,643	Rs. 174	13,759	.....	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th December 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	16,904	4,185 7 0	Mds. S.	Rs. A. P.	7,451 10	305 5 0	7 0 0	4,497 12 0	877
Or per mile of railway ...	188 1 9	.....	.....	.....	13 11 7	0 5 0	2 2 2	2 2 4	.....
For previous 23 weeks of half-year ...	380,231	94,282 14 0	1,69,748 10	6,354 12 0	136 1 0	1,00,773 11 0	20,738	1,106	21,034
Total for 24 weeks ...	397,165	98,465 5 0	1,77,190 20	6,660 1 0	143 1 0	1,05,271 7 0	21,615	1,287	22,903
COMPARISON.									
Total for corresponding week of previous year ...	13,776	3,858 9 0	25,464 10	335 9 0	8 0 6	4,252 2 6	903	185	1,085
Per mile of railway corresponding week of previous year ...	.....	173 6 9	.....	17 5 3	0 5 9	191 1 9	.....	.....	.....
Total to corresponding date of previous year ...	425,809	1,04,369 14 1	2,87,649 20	6,891 8 0	151 4 9	1,11,412 10 10	21,075	2,135	24,111

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
22½	Rs. 4,252	Rs.	22½	Rs. 4,498	Rs. 202	22½	Rs. 1,94,050	Rs. 236	22½	Rs. 1,90,322	Rs. 231	.....	Rs. 3,728

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 6th December 1890, on 763 miles open.

	COACHING TRAFFIC.			MERCHANTISE AND MINERAL TRAFFIC.			Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Coaching.	Merchan- dise.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ...	188,556	81,690 0 0	Mds. S.	Rs. A. P.	5,10,095 0	1,39,990 0 0	16,580 0 0	2,38,360 0 0	22,875	35,562	58,437
Or per mile of railway ...	247	107 0 0	680 0	.....	183 0 0	.....	2 0 0	292 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	3,095,538	13,87,381 0 0	1,34,51,164 0	33,59,580 0 0	3,83,600 0 0	**51,30,661 0 0	488,626	738,070	1,224,696	1,224,696	1,224,696
Total for 23 weeks ...	3,284,594	14,69,071 0 0	1,39,70,199 0	34,69,570 0 0	4,00,180 0 0	53,68,821 0 0	511,501	771,632	1,283,133	1,283,133	1,283,133
COMPARISON.											
Total for corresponding week of previous year ...	201,316	79,497 0 0	7,52,677 0	1,96,664 0 0	19,190 0 0	2,95,331 0 0	22,851	38,608	61,359	61,359	61,359
Per mile of railway corresponding period of previous year ...	269	106 0 0	1,008 0	263 0 0	2 0 0	371 0 0	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	3,337,795	15,08,504 0 0	1,45,77,944 0	36,58,178 0 0	4,16,691 0 0	55,83,373 0 0	519,319	752,092	1,271,411	1,271,411	1,271,411

* Audited up to week ending 23rd October 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
747	Rs. 2,95,351	Rs. 395	763	Rs. 2,38,260	Rs. 312	717	Rs. 77,19,816	Rs. 299	760	Rs. **77,51,479	Rs. 283	Rs. 32,664	.....

* Audited up to week ending 23rd October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	32,404	12,460 0 0	83,592 0	2,630 0 0	130 0 0	15,220 0 0	3,600	2,020	5,620
Or per mile of railway ...	250	100 0 0	269 0	21 0 0	1 0 0	122 0 0	.....	.....	.....
For previous 22 weeks of half-year ...	529,849	1,90,522 0 0	8,95,874 0	73,546 0 0	5,275 0 0	*2,65,313 0 0	85,667	33,475	110,142
Total for 23 weeks ...	562,233	2,02,982 0 0	9,20,466 0	76,176 0 0	5,405 0 0	2,84,563 0 0	69,267	35,495	134,762
COMPARISON.									
Total for corresponding week of previous year ...	35,742	11,296 0 0	40,567 0	3,433 0 0	406 0 0	15,135 0 0	3,472	2,260	5,672
Per mile of railway corresponding period of previous year ...	286	90 0 0	325 0	28 0 0	3 0 0	121 0 0	.....	.....	.....
Total to corresponding date of previous year ...	641,759	2,19,421 0 0	13,03,405 0	1,19,625 0 0	5,194 0 0	3,44,310 0 0	81,400	53,488	136,888

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	.....	.....
125	15,135	121	196	15,220	122	125	5,24,157	116	125	*4,50,059	100	.....	74,098

* Audited up to week ending 25th October 1890.

DACC STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,398	6,460 0 0	31,010 0	3,210 0 0	170 0 0	9,840 0 0	2,415	1,633	3,448
Or per mile of railway ...	202	75 0 0	361 0	37 0 0	2 0 0	114 0 0	.....	.....	.....
For previous 22 weeks of half-year ...	335,830	1,10,579 0 0	4,84,868 0	45,402 0 0	5,506 0 0	*1,61,487 0 0	52,725	16,888	69,613
Total for 23 weeks ...	351,228	1,17,039 0 0	5,15,878 0	48,612 0 0	5,676 0 0	1,71,327 0 0	55,140	17,921	73,061
COMPARISON.									
Total for corresponding week of previous year ...	19,638	6,510 0	51,075 0	5,248 0 0	162 0 0	11,920 0 0	2,536	2,035	4,591
Per mile of railway corresponding period of previous year ...	232	76 0 0	601 0	61 0 0	2 0 0	139 0 0	.....	.....	.....
Total to corresponding date of previous year ...	358,635	1,15,161 0 0	6,15,684 0	52,637 0 0	4,784 0 0	1,72,582 0 0	57,318	23,298	80,616

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

	RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	.....	
86	11,920	139	86	9,840	114	86	2,46,861	80	86	*2,53,188	82	6,327	.....	.....

* Audited up to week ending 25th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANTISAND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ..	2,950	Rs. A. P. 1,020 0 0	Mds. S. 11,827 0	Rs. A. P. 700 0 0	Rs. A. P. 30 0 0	Rs. A. P. 1,750 0 0	591	335	926
Or per mile of railway ..	108	57 0 0	434 0	26 0 0	1 0 0	64 0 0	.....	.....	.....
For previous 22 weeks of half- year ..	61,692	23,470 0 0	2,25,091 0	12,075 0 0	383 0 0	*35,928 0 0	14,980	8,243	23,223
Total for 23 weeks ..	67,552	24,450 0 0	2,37,818 0	12,775 0 0	413 0 0	*27,678 0 0	15,571	8,578	24,149
COMPARISON.									
Total for corresponding week of previous year ..	3,566	1,290 0 0	9,043 0	694 0 0	68 0 0	2,052 0 0	586	340	926
Per mile of railway corresponding period of previous year ..	134	47 0 0	332 0	25 0 0	3 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year ..	71,822	26,211 0 0	2,08,187 0	18,860 0 0	1,858 0 0	41,929 0 0	13,328	8,102	21,430

* Audited up to week ending 23rd October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 7TH DECEMBER 1890.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.		Total increase in 1890.	Total decrease in 1890.		
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
27½	2,052	75	27½	1,750	64	27½	67,508	69	27½	*63,600	65	3,908

* Audited up to week ending 25th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 6th December 1890, on 699 miles open.

	COACHING TRAFFIC.			MERCHANTISAND MINERAL TRAFFIC.			Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Coaching.	Merchan- dise.			Coaching.	Merchan- dise.	Total.
Total traffic for the week ..	94,480	Rs.	Mds.	Rs.	Rs.	Rs.		Rs.			
Or per mile of railway ..	135·16	39,056	3,98,690	55·57	570·37	84·23	7,570	1,05,590	12,684	15,655	28,339
For previous 21 weeks of half- year ..	1,690,720	6,85,289	58,67,744		7,55,000		1,52,697	15,92,086	272,360	263,587	535,887
Total for 22 weeks ..	1,785,2 0	7,24,339	62,66,434		8,13,880		1,60,267	16,68,486	284,984	279,242	564,226
COMPARISON.											
<i>Audited figures.</i>											
Total for corresponding week of previous year, 649 miles open ..	78,112	35,975	2,99,730		42,109		7,829	85,913	11,271	14,431	25,702
Per mile of corresponding week of previous year ..	120·36	55·43	461·86		64·80		12·06	132·98	.....	.....	.....
Total to corresponding date of previous year ..	1,837,898	7,01,098	61,76,990		7,18,088		1,85,781	16,04,899	260,710	258,670	549,380

* Steam-boat earnings for the week ..

Ditto ditto to date ..

Rs. 6,706

Rs. 1,26,740

Train mileage figures :-

a Bengal & N.W. Section. Tirhoot Section.

Rs. Rs.

* Ajodhya bridge earnings for the week ..

Ditto ditto to date ..

Rs. 560

Rs. 9,790

Coaching ... 6,613

Goods ... 6,928

6,657

Total ... 13,011

15,328

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

	RECEIPTS FOR WEEK ENDING 6TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 7TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH DECEMBER 1890.	TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 7TH DECEMBER 1890.	Per mile worked per week.	Per mile worked per week.	Total increase in 1890-91.	Total decrease in 1890-91.
	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.						
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
699	1,65,500	150·93	649	85,913	132·38	676	36,22,165	125·18	849	29,20,552	125·55	1,01,014
<i>N.B.—Earnings of B. and N.W. Section.</i>												
Week ended 6-12-90. Week ended 7-12-90.												
Rs. Rs.												
Coaching ..	16,480			19,421			22,070			16,554		
Goods ..	20,810			12,701			38,070			29,408		
Other earnings ..	5,570			4,812			3,700			4,017		
Total ..	41,860			36,034			63,840			48,370		

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OFFICIAL PAPERS.

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THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal.

P. NOLAN.

The 29th December 1890.

Secretary to the Government of Bengal.

METEOROLOGICAL SUMMARY OF THE MONSOON PERIOD OF 1890.

THE following statement is intended to give a very brief history of the more important features which have characterised the south-west monsoon period and the preceding months of 1890.

During January weather conditions were for the greater part of the month of the normal north-east monsoon character, and up till the 24th no disturbances of any importance entered Bengal. On this date, however, a well-formed barometric depression, which had originated in North-Western India on the 22nd, commenced to pass through the province, travelling through it on the 24th and 25th, and reaching Burma on the 26th. This storm brought rather heavy rain, and in fact practically the whole rainfall of the month was due to it. January was therefore decidedly more free from storms than is usually the case, and for the month rainfall was decidedly deficient in Chutia Nagpur, South Behar, Orissa, and North Behar while it was almost normal in amount in South-West Bengal and North Bengal, and almost twice as great as the normal in East Bengal. Pressure also during the month was rather largely in defect of the normal, the defect usually ranging from 0.06 inch to 0.08 inch; the defect being largest in West and Central Bengal, and smallest in the south of Orissa. Temperature was, on the other hand, in excess of the normal, the

excess averaging about $1\cdot6^{\circ}$; humidity was also larger than usual, and cloud proportion rather smaller.

In February also there was a singular absence of cold-weather storms, and only two slight depressions affected the province, neither of which was sufficiently influential to produce general rain. During this month therefore rainfall was confined to a few local showers of no importance. South-West Bengal, Chutia Nagpur, and North Bengal were entirely rainless, and the average fall in the other districts did not amount to more than a few hundredths of an inch. Pressure also in this month was in defect in all districts by about 0·02 inch. Temperature for the firsthalf of the month was either below or about normal, but during the secondhalf it became in excess of the normal by about 3° to 4° . Cloud proportion continued below the usual amount in February, but humidity was about normal.

In March again there were no storms of the usual cold-weather type, but owing to the comparatively early setting in of hot-weather conditions, a few local storms of the class called nor'westers commenced as early as 4th March, and they continued to occur locally up to about the middle of the month; but they were, as a general rule, decidedly more feeble than usual. Owing, again, to the comparative absence of storms, rainfall was largely in defect of the normal in all districts except Chutia Nagpur and Orissa, the defects being particularly large in North Bengal, North Behar and South-West Bengal; while, on the other hand, Orissa received a fall rather more than twice as large as usual. Barometric pressure continued in March rather largely in defect, the usual defect equalling 0·04 inch to 0·07 inch. In March also the normal rapid increase in temperature was even more pronounced than usual, and the mean temperature was above the normal in all districts by from about half to two degrees. Notwithstanding the defective rainfall humidity was in this month about normal, while cloud proportion was in excess.

In April conditions were of about average hot-weather character, and the mean temperature for the month was almost absolutely normal. During the first half of the month only a few local storms were reported, and these were principally confined to East and North Bengal, but during the third and fourth weeks two small barometric depressions appeared over the province, and for about ten days from the 17th the weather was generally rather unsettled in all districts except Behar and Chutia Nagpur, while in East and North Bengal severe thunderstorms with heavy rain were of almost daily occurrence, and one of them in the neighbourhood of Mymensingh appears to have acquired the violence of a tornado. Rainfall for April was thus considerably in excess of the normal in North and East Bengal, and rather below it in South Behar and South-West Bengal: it was in large defect in North Behar and Orissa, and in Chutia Nagpur rainfall was practically absent. Pressure during the month was slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, South-West Bengal and South Behar, but elsewhere there was a small excess of about corresponding amount.

In the early part of May there was a short period of intensely hot weather in Bengal, which was accompanied by abnormally low pressure and unusually light winds, and more or less complete absence of rainfall in all districts except East and North Bengal. This lasted up to about the 9th or 10th, during which period a small cyclonic storm had been forming in the Bay of Bengal, probably not far from the Andamans, which afterwards moved in a north-north-easterly direction, and on the 7th passed into Burma across the coast between Diamond Island and Akyab, where it broke up on the 8th. The wave of moist winds and disturbed conditions after the breaking up of the storm appeared to drift northwards, and from about the 11th or 12th rainfall became fairly general though by no means heavy over practically the whole province of Bengal. The rainfall for this month was in most districts a little below the normal, the only district in which the defect was considerable being Chutia Nagpur, while on the other hand the falls in East Bengal were slightly above the average. Owing probably to the effect of the cyclonic storm above noted, the general pressure for the month in Bengal was distinctly below the normal, the defect in many cases ranging from two to five hundredths of an inch. The variations of temperature during the month were exceptionally large, and in the early part temperatures of from 4° to nearly 10° in excess were registered, but with the setting in of rainfall

this excess disappeared, and for the whole month, though temperature was higher than usual, the excess was not larger than about one degree.

During the first five months of the year or, in what may be termed, the pre-monsoon months, it will be seen that conditions were somewhat abnormal. Pressure had been in distinct defect in each month, the defect at some stations exceeding a twentieth of an inch in January and March. Temperature also had generally been in excess of the normal, the only exception being in April, when it was practically normal. Rainfall also on the whole was very considerably below the normal in most districts. East Bengal had received a fall in the five months, about 6 per cent. below the normal only, but in Orissa and North Behar the defect was from 25 to 30 per cent., in South-West Bengal 40 per cent., in South Behar 50 per cent., and in North Behar and Chutia Nagpur about 60 per cent. During these five months also there were comparatively few storms; the cold-weather or north-east monsoon storms were indeed almost absent, the hot-weather local storms were also not very numerous, and most of them were not very influential, and the only storm of any importance at all was the cyclonic storm of May which passed over Burma.

In the south of the Bay of Bengal the first advance of the south-west monsoon current appeared to take place in the last day or two of April. This advance progressed rather farther up the Bay than usual, and gave rise to the small storm just referred to. About the second week in May again another advance of the monsoon current appears to have been felt in the south of the Bay, and fairly strong winds continued to be reported at the Ceylon stations up to the close of the month. These facts rather pointed to the probable early establishment of the monsoon current, and therefore of the regular rains over Bengal, but though moderately heavy general rain continued to fall in North and East Bengal from early in June, yet in other districts the commencement of the heavy, almost daily, rainfall which characterises the south west monsoon rains did not take place till about the 18th June. In some of the southern districts fairly general rain had occurred before this date on the 5th and 6th and the 9th and 10th of June, but these falls were again followed by periods of fine weather, and from the 13th and 17th of June only scattered showers of rain were reported. The large advance of the monsoon current which brought about the heavy general rainfall of the 18th and following dates was caused by the advance of a feeble barometric depression which formed in the north-west angle of the Bay on the 17th, after which it advanced into Chutia Nagpur, filling up there on the 20th; on the 22nd also a depression formed over the east of the province, and subsequently moved in a westerly direction, giving very heavy rainfall in its advance—several stations reporting from 5 to 10 inches. Both these depressions caused a large inflow of moist winds over the province, and the wind velocities for June were at the coast stations generally higher than the normal, indicating probably a stronger monsoon than usual. The rainfall for the month was however largely in excess of the normal in all districts except East Bengal, where there was a slight defect. The excess falls usually ranged from twenty-five to forty per cent in excess of the normal, but in South Behar the fall was nearly twice as large as usual.

The mean pressure for June was very nearly normal, the differences being generally under a hundredth of an inch. Temperature was in distinct, though slight, defect of the normal, the defect being generally under a degree.

The strength of the monsoon current blowing in July again continued rather largely above the normal as judged by the wind velocities at the coast stations, and, as will be seen subsequently, rainfall was also in considerable excess. There was also during the month a comparative and indeed an almost complete absence of barometric depressions or cyclonic storms such as usually occur during the rainy season. Only one small storm deserves mention, and this formed quite at the end of June in the north-west of the Bay, and moving in a westerly direction crossed the coast near False Point, early in July, but it only gave moderately strong winds, and brought up comparatively little rainfall. The second was a very unimportant whirl which formed in the north-west angle of the Bay on the 19th, and then passed through Chutia Nagpur to the North-West Provinces, where it filled up on the 24th. During this period a steady south-westerly current blew over the whole province, giving heavy rain in all districts. Indeed, the rainfall over the whole province in July was generally about twenty-five per cent. in excess of the normal,

but the variations in different districts were considerable. In Orissa, which had on the whole about a normal fall, the district of Pooree received a fall about half as large again as usual, while on the other hand the Balasore district received only about half the usual fall. South-West Bengal also received generally almost a normal fall, and included districts such as Midnapore and Howrah, where the falls were about half as much as usual, and on the other hand districts such as Burdwan and Moorshedabad, where they were from 40 to nearly 60 per cent. in excess of the normal. In East Bengal all districts received practically abundant rain, and the general fall was a fifth larger than usual. The falls in North Bengal averaged about thirty per cent. in excess of the usual amount, the excess falls being mainly determined towards the line of the hills, and in the Darjeeling district the falls were nearly twice as large as usual. In North Behar the falls were even larger, and they averaged 74 per cent. in excess, and all the districts in this division received very abundant falls. In South Behar the fall was 36 per cent. in excess of the normal, and again all the districts received abundant rain, but in the Chutia Nagpur Division, though the rainfall averaged 16 per cent. in excess, in the district of Singbhum the fall was only two-thirds of the usual amount.

The pressure changes were rather large during July, though the means of the month were fairly normal, the pressure in East Bengal being almost the average amount, while in the other districts it was below it by amounts varying from one to four hundredths of an inch. In the case of temperature also there were rather large changes, and towards the close of the month the maximum temperatures were at many stations 8° to 10° below the normal. The monthly means of temperature were therefore below the normal, the defect being about one to one and-a-half degrees in all districts except Orissa and South-West Bengal, where it equalled about half a degree.

August also was a month of entire absence of storms of any importance, though a few very unimportant depressions or whirls formed in the early part of August in the north of the Bay. They may perhaps have had the effect of diminishing the strength of the monsoon current blowing over Bengal, for the mean wind velocities for August showed that the winds blowing from the Bay were at almost all the coast stations very largely below their normal strength. Rainfall also in this month was rather considerably below the normal in all districts except North Bengal and Behar, where there was again excessive precipitation. Indeed this tendency for the excessive rainfall to be deflected towards the northern districts of the province, that is, towards North Bengal and Behar, was a most prominent characteristic of the monsoon season of 1890. In August Orissa received about four-fifths of the usual fall, and again, as in July, the Balasore district was most largely in defect. South-West Bengal generally was about 30 per cent. in defect, and in the district of Bankoorah in particular the fall was less than a third of the usual amount. In East Bengal the defect was small only, though in Backergunge and Tipperah districts the defects were considerable. In North Bengal and Behar, on the other hand, the falls were about a third in excess of the normal, and all the districts in these divisions received an abundant fall except Purnia and Rajshahiye. In Chutia Nagpur, again, the fall was only three-fourths of the normal, and in the Singbhum district in particular the fall was only 25 per cent. of the usual amount.

The variations of pressure during August were not very large and of little practical importance, and for the whole month the means were above the normal by between two and three hundredths of an inch. As regards temperature, the monthly mean for South-West Bengal was normal, and for the other districts below the normal, the defect being under half a degree in Orissa and East Bengal, and between half and one and-a-half degrees in all the other divisions.

September was again a month in which nothing like a storm occurred in the Bay of Bengal, and during the greater part of the month only light monsoon weather prevailed. A very shallow depression did indeed form from the 13th to the 19th, remaining for the greater part of the time over Orissa, but it was not very influential in the matter of rainfall. A rather more important depression formed in the Bay off Vizagapatam on the 22nd, and gradually drifted inland between Gopalpore and Vizagapatam, moving in a north-westerly and northerly direction, and passing through Orissa into Chutia Nagpur, where it filled up on the 28th. This rather feeble depression nevertheless brought up a

very powerful wave of moisture-laden winds, and very heavy and general rain prevailed over the province during the latter part of the month. The rainfall of the first half of September was, however, much lighter and more scattered than usual, and thus the monthly rainfall was decidedly below the normal in East Bengal, Chutia Nagpur and Behar, while it was about normal in Behar. Orissa, however, through which both depressions passed, received the very heavy rainfall of nearly 70 per cent. in excess of the normal. North Bengal also received very heavy falls of rain as in the previous months, and showed a fall nearly half as large again as the normal. In the division of Orissa all the districts received very heavy falls, but in South-West Bengal, though generally there was a normal fall, Khoolna and Jessore showed rather serious defects. Practically also all the districts in East Bengal showed very seriously deficient rainfall, while all the districts in North Bengal had very heavy falls. In North Behar, Purneah received a large fall, and all other districts comparatively small falls; and in South Behar the falls were most deficient in Gya, South Bhagulpur and Monghyr districts. Finally, in Chutia Nagpur, Singbhum, which had been in previous months recording most largely deficient falls, in September received comparatively rather larger falls, though even in this month they were below the normal amounts.

The variations of pressure during the first half of September were small and of little consequence, but during the second half they were rather large. The means for the month were below the normal by about 0·02 inch in the south of Orissa, and about 0·03 inch above it in East Bengal, but elsewhere the difference from the normal was only a few thousandths of an inch. In the case of temperature there were large variations, and during the early part of the month, when rainfall was rather deficient, temperature was in considerable excess, but with the heavy falls of rain towards the close of the month a very rapid fall of temperature set in, and it became much below the normal. For the whole month the mean temperature was nearly normal, some districts showing slight defects and others excess temperatures, but in no case did the variations exceed half a degree.

Up to the end of September weather conditions in Bengal continued to be influenced by the depression which had filled up on the 28th in Chutia Nagpur. Early in October, however, rainfall practically ceased over the province, the monsoon current became weak, and apparently commenced to retreat rapidly down the Bay. In its retreat, however, a barometric depression of rather greater importance than those in the preceding months commenced to form, and the little storm had a life history from the 8th to the 16th of October. The depression at first apparently covered a considerable part of the south of the Bay, but up till the 11th it had changed very little, when on this day the centre was probably to the east of Coconada, and was moving in a north or north-westerly direction. On the 12th the centre was close to the coast between Vizagapatam and Gopalpore, and it crossed the coast on the following morning, after which it moved northward, passing through Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur. The small storm was not a severe one, but it brought up particularly heavy rain. The general rainfall in October was to a great extent due to this cause. After this the south west monsoon current again commenced to retreat down the Bay, but on the 20th a second depression began to appear in the east of the centre of the Bay. This small storm, which was only of feeble character and of very local influence, moved in a northerly direction over the Sunderbans into East Bengal, and on the 23rd its centre was near Furreedpore, and it filled up on the following day. Except in the immediate proximity of the storm centre, the rainfall brought up was light, and it did not extend generally beyond East Bengal. After the 25th October the monsoon current again retreated, giving a few showers in Orissa, but practically by the close of October the south-west monsoon rainfall had entirely ceased, and a steady northerly wind current was setting in over the whole of the province. The dates on which the general rainfall ceased in the various meteorological divisions were as follows:—in South Behar and Chutia Nagpur about the 15th, in North Behar and North Bengal about the 17th, in South-West Bengal the 18th to the 20th, in East Bengal on the 25th, and in Orissa about the 31st.

Owing principally to the heaviness of the rainfall brought up by the first of the two feeble storms described, the rainfall in October was considerably

above the normal, the general excess averaging nearly 50 per cent. In only one division were the falls below the usual amount, and in Chutia Nagpur the defect was about 30 per cent., and all the districts in the division showed large deficiency. In Behar the falls generally were slightly heavier than usual, but in the districts making up the division there were very great anomalies. The Sonthal Pergunnahs received a fall about three times as large as usual, receiving ten inches of rain instead of about three-and-a-half; the Chumparun and South Bhagulpur districts also received considerable excess falls; but on the other hand, the falls in Gya, Sarun, Patna and Shahabad were extremely defective. East Bengal generally received a fall of about a quarter larger than usual, but even here Chittagong was considerably in defect. In Orissa the fall was about half as large again as usual, all districts receiving an excess fall; and in South-West Bengal the general fall averaged eight inches against the normal amount of about four inches, and the excess falls in the districts of 24-Pergunnahs, Beerbhoom and Nuddea were particularly large. The Division of North Bengal, however, again showed the peculiar determination of the rain-bearing current towards this district, and it received nearly twelve and a third inches general fall as against a normal amount of about four inches and a third. In many of the districts of North Bengal in October indeed the actual falls were from three to four times the ordinary amounts.

In regard to the other meteorological elements for October pressure changes during the existence of the first small storm described were moderately large, but during the second storm they were small. For the whole month the mean pressure did not differ from the normal by more than a few thousandths of an inch. Owing apparently to the heaviness of the rainfall in October, the mean temperatures were rather largely below the normal, the defects ranging from $1\cdot6^{\circ}$ in Chutia Nagpur to $0\cdot3^{\circ}$ in North Behar.

The principal features of the monsoon season of 1890 and of the months preceding it in Bengal have therefore been—

1. Pressure was rather decidedly in defect of the normal up to the commencement of the rains.
2. Temperature was on the other hand in excess of the normal both during the north-east monsoon season and in the hot-weather season, and indeed up till practically the commencement of the rains.
3. There was an almost entire absence of cold-weather storms during the early months of the year, and the hot-weather storms were not very numerous nor were they of any particular intensity in most cases. The only storm of any importance whatever was one which occurred in front of the first advance of south-west monsoon winds in the Bay, and which afterwards struck the coast between Akyab and Diamond Island, but even this was not very intense.
4. Rainfall up to the setting in of the monsoon rains was on the whole considerably below the normal, the defects ranging from 6 per cent. of the normal in East Bengal to 50 and 60 per cent. in North Behar and Chutia Nagpur.
5. The actual monsoon rains set in a few days later than usual, the general date over the greater part of the province being about 18th June.
6. During the whole of the south-west monsoon and even during its retreat southwards down the Bay, not a single severe storm has occurred, and the only importance which any of the few whirls which were formed possessed has been due to the rainfall brought up by them. The monsoon period this year has therefore been a singularly quiet one.
7. The monsoon current appeared to be considerably in excess of its normal strength in June and July, though in August and September it was rather below it. It retreated from Bengal at about the normal period.
8. Rainfall was largely in excess of the normal in June and July, of more nearly normal amount in August and September, and again largely in excess in October.
9. The rainfall in October continued rather later than usual owing to the effect of a diffused barometric depression which advanced from the Bay over part of the province about the middle of the month.
10. There was a very singular and pronounced tendency for the heavy rainfall to concentrate itself towards the north of the province and towards the line of the hills. This tendency was particularly well marked in the districts of North Behar and to a rather smaller extent over North and South Behar. In

North Bengal the rainfall from June to October inclusive was about 63 per cent. in excess of the normal.

11. The following tables give briefly the amount and variation of the rainfall in each of the seven meteorological divisions, month by month, for the monsoon season, May to October inclusive :—

Actual Rainfall in inches.

METEOROLOGICAL DIVISIONS.	May.	June.	July.	August.	September.	October.	Year.
Orissa ...	3.84	11.05	12.05	9.28	17.21	9.00	62.43
South-West Bengal ...	4.71	14.25	12.20	8.67	9.36	8.07	57.26
East Bengal ...	9.44	16.25	19.87	14.10	7.21	6.92	73.79
North Bengal ...	6.88	23.14	18.02	18.20	19.17	12.30	97.71
North Behar ...	3.03	12.24	21.45	15.54	9.53	3.59	65.98
South Behar ...	2.28	12.29	16.28	14.15	6.53	3.78	55.31
Chutia Nagpur ...	1.72	10.10	15.22	10.01	7.03	2.07	46.15

Variation of actual Rainfall from the average in inches.

Orissa ...	- 0.03	+ 2.27	- 0.43	- 2.12	+ 6.96	+ 2.84	+ 9.49
South-West Bengal ...	- 0.69	+ 4.14	+ 0.20	- 4.10	+ 0.32	+ 3.74	+ 3.61
East Bengal ...	+ 0.18	- 1.96	+ 3.36	- 1.83	- 4.87	+ 1.49	- 3.63
North Bengal ...	- 1.64	+ 5.60	+ 3.98	+ 4.36	+ 5.75	+ 7.92	+ 25.97
North Behar ...	- 0.17	+ 3.52	+ 9.11	+ 3.94	- 0.32	+ 0.05	+ 16.13
South Behar ...	- 0.11	+ 5.58	+ 4.26	+ 2.78	- 1.45	+ 0.48	+ 11.54
Chutia Nagpur ...	- 0.93	+ 2.16	+ 2.13	- 3.51	- 1.68	- 0.90	- 2.73

Variation expressed in a percentage of the normal fall.

Orissa ...	- 1	+ 26	- 4	- 19	+ 68	+ 46	+ 18
South-West Bengal ...	- 13	+ 41	+ 2	- 32	+ 4	+ 86	+ 7
East Bengal ...	+ 2	- 11	+ 20	- 11	- 40	+ 27	- 5
North Bengal ...	- 19	+ 32	+ 28	+ 31	+ 43	+ 180	+ 36
North Behar ...	- 5	+ 40	+ 74	+ 34	- 3	+ 1	+ 33
South Behar ...	- 5	+ 83	+ 35	+ 24	- 18	+ 15	+ 26
Chutia Nagpur ...	- 35	+ 27	+ 16	- 26	- 19	- 30	- 6

12. Finally, the rainfall of the whole province from May to October inclusive averaged 65.43 inches, while the normal fall for the period is 56.81 inches, so that the actual average fall has been in excess by 8.62 inches. Expressed as a percentage, the actual rainfall in the province of Bengal for this period has been in excess of the normal by 15 per cent.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL,

The 13th December 1890.

TABLE I.

Actual Monthly Rainfall of districts in Bengal for the months of May to October 1890.

[N. B.—The figures in this table are the arithmetical averages of the corresponding figures in the returns for the sub-divisional stations.]

DIVISION.	DISTRICT.	May.	June.	July.	August.	September.	October.	TOTAL
ORISSA ..	Pooree ...	2.13	9.74	16.06	10.45	15.94	10.28	64.60
	Cuttack ...	3.69	9.33	14.70	9.96	16.78	7.62	62.08
	Balasore ...	5.12	13.37	7.16	7.94	18.42	9.28	61.29
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Pergunnahs.	7.42	9.91	7.36	9.72	13.32	18.37	66.10
	Midnapore ...	6.52	14.26	9.34	5.49	9.98	4.73	50.32
	24-Pergunnahs ...	5.38	12.77	9.16	9.46	9.66	10.44	56.87
	Hooghly and Howrah	4.73	16.50	8.90	8.51	9.48	6.03	54.15
	Bankoora ...	4.05	14.62	14.17	4.85	8.97	5.34	52.00
	Beerbboom ...	1.87	17.22	16.00	10.25	10.27	8.08	63.69
	Burdwan ...	3.16	20.29	14.44	6.62	11.98	4.99	61.48
	Nuddea ...	4.50	12.21	11.59	8.57	10.09	8.74	55.70
	Morshedabad ...	3.30	11.72	17.69	10.95	9.85	7.44	60.95
	Khoelna and Jessor ...	6.11	14.65	11.63	9.34	5.34	7.85	54.92
EAST BENGAL	Chittagong ...	4.92	25.29	48.20	24.42	11.40	3.88	118.11
	Chittagong Hill Tracts	8.96	14.77	22.71	15.39	9.31	4.30	75.44
	Backergunge ...	6.38	16.29	19.46	12.37	6.84	7.14	68.48
	Noakholly ...	10.65	19.79	25.79	24.44	11.05	8.80	100.52
	Furreedpore ...	5.71	9.07	11.14	10.04	4.10	7.53	47.59
	Dacca ...	11.29	13.29	14.93	12.55	3.57	5.18	60.81
	Tipperah ...	10.65	14.70	16.80	10.75	5.65	6.26	64.81
	Mymensingh ...	11.33	19.68	17.04	12.88	9.48	9.03	79.44
	Pubna ...	7.97	10.50	10.61	9.10	12.39	5.63	56.20
NORTH BEN- GAL.	Bogra ...	6.44	16.34	13.47	14.06	16.50	11.36	78.17
	Rajshahye ...	5.72	17.98	19.07	8.00	15.16	10.02	75.95
	Maldah ...	4.63	11.26	11.29	16.59	12.95	7.60	64.32
	Dinagepore ...	6.14	16.53	16.80	16.10	17.42	11.44	84.43
	Rungpore ...	8.69	28.01	14.50	14.93	26.65	18.28	111.06
	Julpigoree and Cooch Behar.	7.67	44.13	30.75	36.43	24.68	14.98	158.64
	Darjeeling Hill ...	7.40	32.39	60.22	31.87	22.38	14.28	168.54
	Purneah and North Bhagulpore.	3.51	15.23	23.04	18.87	14.09	6.23	80.97
NORTH BEHAR	Durbhang ...	2.31	10.87	22.94	14.88	5.94	1.74	58.68
	Mozufferpore ...	2.60	8.36	20.20	13.26	7.18	1.79	53.39
	Chumparun ...	4.35	12.65	23.38	13.92	9.08	5.67	69.05
	Sarun ...	2.09	10.53	17.28	14.46	8.18	1.48	54.02
	Shahabad ...	0.71	10.32	16.44	13.43	7.45	1.34	49.69
SOUTH BEHAR	Gya ...	1.20	13.18	17.47	20.10	4.85	0.43	57.23
	Patna ...	2.41	8.46	15.40	14.04	7.57	1.34	49.22
	Monghyr and South Bhagulpore.	3.35	12.64	16.89	12.23	5.35	3.17	53.63
	Sonthal Pergunnahs ...	3.31	15.60	15.45	12.45	7.18	10.21	64.20
	Hazaribagh ...	1.08	10.74	17.98	9.72	7.74	1.75	49.01
CHUTIA NAG- PUR.	Lohardugga ...	1.83	7.87	15.50	14.27	6.36	1.63	47.46
	Manbboom ...	1.94	12.36	10.78	7.60	5.99	3.31	41.98
	Singbboom ...	4.25	9.04	9.42	3.48	7.18	1.73	35.10

TABLE II.

Variation of the average district actual Monthly Rainfall from the normal average for the months of May to October 1890.

DIVISION.	DISTRICT.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	-0.87	+1.32	+4.07	-1.43	+5.79	+2.10	+10.98
	Cuttack . . .	+0.18	-0.19	+2.47	-1.06	+7.45	+1.99	+10.84
	Balasore . . .	+0.37	+4.97	-5.85	-3.47	+7.32	+4.03	+7.37
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Pergunnahs.	+2.62	+0.10	-8.10	-4.59	+1.88	+10.65	+2.56
	Midnapore . . .	+1.33	+4.82	-3.41	-8.44	+1.89	+0.46	-3.35
	24-Pergunnahs . . .	-0.34	+3.04	-3.26	-3.73	+0.89	+6.34	+2.94
	Hooghly and Howrah . . .	-0.63	+6.80	-3.96	-5.60	+0.96	+2.10	-0.33
	Bankoora . . .	+0.22	+4.64	+0.78	-9.51	+0.80	+1.88	-1.19
	Beerhoom . . .	-1.54	+7.15	+3.06	-2.85	+0.39	+4.62	+10.83
	Burdwan . . .	-1.89	+11.41	+3.86	-5.48	+4.31	+1.02	+13.23
	Nuddea . . .	-1.87	+2.49	+1.35	-3.46	+1.50	+4.53	+4.54
	Moorshedabad . . .	-1.96	+2.59	+6.81	-0.93	-0.55	+3.22	+9.18
	Khoolna and Jessore . . .	-0.68	+2.33	+0.44	-2.64	-3.60	+3.43	-0.72
EAST BENGAL	Chittagong . . .	-5.08	-4.34	+17.14	+0.97	-2.92	-2.78	+2.99
	Chittagong Hill Tracts . . .	-0.57	-4.63	+5.31	-1.61	-3.24	-2.86	-7.60
	Backergunge . . .	-1.28	-2.91	+1.48	-3.24	-5.28	+1.59	-9.64
	Noakholly . . .	+0.26	-7.53	+2.52	-0.23	-5.71	+2.43	-8.26
	Furreedpore . . .	-2.85	-3.48	-0.76	-2.02	-4.95	+3.09	-11.00
	Dacca . . .	+2.43	0	+0.90	-0.53	-6.60	+0.73	-3.07
	Tipperah . . .	+0.52	-1.75	+2.98	-5.22	-5.70	+1.15	-8.02
	Mymensingh . . .	+1.63	+2.20	+3.68	-0.96	-3.56	+3.62	+6.61
	Pubna . . .	+0.86	-0.65	+0.04	-2.90	+1.97	+1.04	+0.36
	Bogra . . .	-1.35	+3.57	+0.72	+2.43	+6.09	+6.96	+18.42
NORTH BENGAL	Rajshahye . . .	-0.15	+6.89	+7.72	-3.08	+3.30	+6.29	+20.97
	Maldah . . .	+0.14	-0.60	-0.70	+4.57	+1.90	+3.91	+9.22
	Dinagepore . . .	+0.04	+3.01	+4.75	+4.56	+6.10	+7.89	+26.35
	Rungpore . . .	-2.54	+6.71	+0.51	+2.86	+13.21	+13.39	+34.14
	Julpigoree and Cooch Behar.	-5.43	+13.05	+9.83	+13.98	+3.64	+9.69	+44.76
	Darjeeling Hill . . .	-3.45	+3.97	+27.52	+4.89	+3.74	+8.23	-44.90
	Purneah and North Bhagulpore.	-1.43	+3.73	+9.28	+5.19	+1.70	+2.62	+21.09
NORTH BEHĀR	Durbhunga . . .	-0.32	+2.84	+11.35	+4.13	-3.31	-1.18	+13.51
	Mozufferpore . . .	+0.14	+0.94	+8.78	+3.18	-1.81	-1.61	+9.62
	Chuniparun . . .	+1.76	+4.46	+11.81	+1.98	-0.22	+2.13	+21.92
	Sarun . . .	+0.99	+4.11	+5.10	+4.17	+0.73	-2.73	+11.47
	Shahabad . . .	-0.61	+5.31	+5.09	+1.96	+0.38	-1.96	+10.17
SOUTH BEHĀR	Gya . . .	-0.57	+7.55	+5.24	+8.37	-1.94	-2.40	+16.25
	Patna . . .	+0.32	+2.22	+3.45	+3.56	+0.53	-1.91	+8.17
	Monghyr and South Bhagulpore.	+0.90	+5.69	+5.29	+1.17	-2.56	-0.03	+10.46
	Sonthal Pergunnahs . . .	-0.53	+6.65	+2.59	+0.54	-3.03	+6.46	+12.68
	Hazaribagh . . .	-1.38	+2.66	+4.54	-4.00	-1.33	-1.22	-0.73
CHUTIA NAGPUR.	Lohardugga . . .	-0.54	+0.39	+2.70	+0.96	-2.54	-1.09	-0.12
	Manbhoom . . .	-0.83	+4.28	-1.29	-5.60	-1.70	-0.03	-5.17
	Singbhoom . . .	+0.08	+0.74	-4.85	-10.35	-1.14	-1.22	-16.74

TABLE III.

The variation of the average District Monthly Rainfall expressed as a percentage of the Normal Rainfall for the months May to October 1890.

DIVISION.	District.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree ...	-29	+16	+34	-12	+57	+26	+20
	Cuttack ...	+5	-2	+20	-10	+80	+35	+21
	Balasore ...	+8	+59	-45	-30	+66	+77	+14
SOUTH-WEST BENGAL.	South Midnapore and South-West 24-Per- gunnahs.	+55	+1	-53	-32	+16	+138	+4
	Midnapore ...	+26	+51	-27	-60	+23	+11	-6
	24-Pergunnahs ...	-6	+31	-26	-28	+10	+55	+5
	Hooghly and Howrah	-12	+70	-31	-40	+11	+54	-1
	Bankoora ...	+6	+46	+6	-66	+10	+54	-2
	Beerbhoom ...	-45	+71	+24	-22	+4	+134	+20
	Burdwan ...	-37	+129	+36	-45	+56	+26	+27
	Nuddea ...	-29	+26	+13	-29	+17	+108	+9
	Moorshedabad ...	-37	+28	+63	-8	-5	+76	+18
	Khoolna and Jessor	-10	+19	+4	-22	-40	+78	-1
EAST BENGAL	Chittagong ...	-51	-15	+55	+4	-20	-42	+3
	Chittagong Hill Tracts	-6	-24	+31	-10	-26	-40	-9
	Backergunge ...	-17	-15	+8	-21	-44	+28	-12
	Noakhally ...	+3	-28	+11	-1	-34	+38	-8
	Furreedpore ...	-34	-28	-6	-17	-55	+70	-19
	Dacca ...	+27	0	+7	-4	-65	+16	-5
	Tipperah ...	+5	-11	+22	-33	-50	+23	-11
	Mymensingh ...	+17	+13	+28	-7	-27	+67	+9
	Pubna ...	+12	-6	+1	-24	+19	+23	+1
	Bogra ...	-17	+28	+6	+21	+58	+158	+31
NORTH BEN- GAL.	Rajshahye ...	-3	+62	+68	-28	+28	+169	+38
	Maldah ...	+3	-5	-6	+38	+17	+106	+17
	Dinagepore ...	+1	+22	+39	+39	+54	+222	+45
	Rungpore ...	-23	+32	+4	+24	+98	+274	+43
	Julpigoree and Cooch Behar.	-41	+42	+47	+62	+17	+183	+39
	Darjeeling Hill ...	-32	+14	+84	+18	+20	+136	+36
	Purneah and North Bhagulpore.	-29	+32	+67	+38	+14	+73	+35
	Durbhunga ...	-12	+35	+98	+38	-36	-40	+30
	Mozufferpore ...	+6	+13	+77	+32	-20	-47	+22
	Chumparun ...	+68	+54	+102	+17	-2	+60	+47
SOUTH BEHAR	Sarun ...	+5	+64	-42	+41	+10	-65	+27
	Shahabad ...	-46	+106	+45	+17	+5	-59	+26
	Gya ...	-32	+134	+43	+71	-29	-85	+40
	Patna ...	+15	+36	+29	+34	+8	-59	+20
	Monghyr and South Bhagulpore.	+37	+82	+46	+10	-32	-1	+24
	Sonthal Pergunnahs...	-14	+74	+20	+5	-30	+172	+25
CHUTIA NAG- PUR.	Hazaribagh ...	-56	+33	+34	-29	-15	-41	-2
	Lohardugga ...	-23	+5	+21	+7	-29	-40	0
	Manbhookh ...	-30	+53	-11	-42	-22	-1	-11
	Singbhookh ...	+2	+9	-34	-75	-14	-41	-32

TABLE IV.

Monthly Rainfall of the Sub-divisional Rainfall-recording Stations in the Province of Bengal for the months of May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree	1.84	9.29	14.81	13.55	16.30	11.90	67.69
		Khurdah	3.84	12.74	23.14	3.80	13.23	8.71	65.46
		Banpur	0.50	6.52	14.02	13.42	18.52	9.80	62.78
		False Point	2.35	10.40	12.27	11.01	15.71	10.71	62.45
		Gop	?	?	18.53	8.36	15.98	10.49	?
		Satpara	0.30	5.85	11.21	5.91	7.50	9.71	40.48
		Pipli	2.39	12.56	31.60	10.61	11.76	6.69	75.61
	Cuttack	Jagatsingapore	1.05	9.68	15.06	10.05	17.33	9.45	62.62
		Banki	3.15	11.40	14.70	11.13	13.99	6.47	60.84
		Cuttack	3.83	12.24	21.15	14.03	21.02	8.54	80.81
		Kendrapara	3.73	4.72	11.25	9.12	16.55	7.31	52.68
		Jajpore	6.69	8.62	11.33	5.49	15.01	6.32	53.46
		Dharmasala	5.05	13.40	11.37	6.42	12.19	5.10	53.53
		Salipore	1.91	12.44	12.94	5.00	11.85	7.71	51.85
SOUTH-WEST BENGAL.	Balasore	Chandbali	4.04	9.31	10.50	6.32	13.74	8.54	52.45
		Bhuddruck	4.57	14.36	7.24	5.89	14.47	11.14	57.67
		Sorah	5.20	14.78	6.20	9.39	19.97	7.00	61.64
		Balasore	6.20	14.76	5.76	7.86	22.89	9.18	66.65
		Jellasore	5.96	12.22	5.79	8.46	22.05	10.36	64.84
		Baripodah	4.72	14.77	7.49	9.74	18.30	9.43	64.45
	Midnapore	Contai	10.06	10.18	3.76	6.74	15.11	21.61	67.46
		Saugor Island	5.66	9.80	8.07	9.88	12.52	21.76	67.69
		Tumlook	9.20	12.70	10.40	6.50	12.20	7.10	58.10
		Midnapore	5.81	17.50	6.04	5.72	7.80	5.10	47.97
		Ghatal	4.54	12.57	11.57	4.25	9.95	1.98	44.86
		Kukrabati	5.40	7.16	6.10	8.12	13.71	10.25	50.74
		Garbeta	3.39	11.91	15.22	3.11	9.02	3.58	46.23
24-PERIODS.	Diamond Harbour	Diamond Harbour	6.52	9.76	10.26	12.53	12.34	11.77	63.18
		Canning Town	4.49	14.59	10.41	16.62	7.18	14.03	67.32
		Alipore Jail	4.70	13.93	11.55	10.14	12.42	9.68	62.42
		Barrackpore	5.59	11.82	8.76	8.31	9.13	8.41	52.02
		Dum-Dum	3.48	13.28	6.88	8.62	11.77	12.04	56.07
		Baraset	6.76	10.59	7.32	9.47	9.69	11.17	55.00
		Buseerhat	6.88	14.25	11.31	10.76	5.31	10.89	58.90
		Howrah	3.16	13.44	8.61	9.27	9.95	7.06	51.49
	Hooghly	Mohekreka <i>(Oolooberiah).</i>	5.53	24.86	6.50	7.36	10.01	5.28	59.57
		Serampore	5.44	12.67	9.08	9.41	10.53	8.41	55.54
		Hooghly	4.33	15.47	6.38	7.52	12.52	6.17	52.39
	Burdwan	Jehanabad	5.14	16.04	13.91	8.98	4.38	3.21	51.66
		Culna	3.06	18.07	11.88	6.63	10.91	3.97	54.52
		Burdwan	2.96	21.02	19.52	7.16	11.00	3.50	65.16
		Cutwa	3.47	21.78	11.92	6.06	14.04	7.49	64.76
		Raneeunge	2.48	17.89	13.47	9.74	8.03	8.83	60.44
	Bankura	Mankur	4.14	16.99	10.99	7.41	4.89	3.38	47.80
		Bankura	4.61	12.16	20.70	4.25	11.28	4.76	57.76
		Bishenpore	6.58	15.44	10.85	3.52	9.90	4.66	50.95
		Maliara	1.50	21.94	14.87	7.37	7.63	5.92	59.23
		Khatra	3.52	8.95	10.24	4.27	7.06	6.02	40.06
		Indas	2.73	16.26	21.87	6.48	6.89	5.74	59.97
		Kotalpore	4.87	18.54	23.34	6.88	6.63	6.68	66.94

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH-WEST BENGAL— concl'd.	Bankoora— concluded.	Anda	3.30	12.51	16.35	2.57	11.18	9.20	55.11
		Gangajalghati	3.01	23.18	15.93	7.27	10.49	8.87	63.75
		Rai pore	6.65	10.24	15.05	6.29	9.15	6.13	53.51
		Sonamukhi	2.46	14.25	16.08	6.44	9.00	4.51	52.74
		Bh. Soory	1.16	16.36	20.92	8.64	8.57	6.37	62.02
	Beerhoom	Hetampore	1.03	17.62	13.94	6.35	11.58	9.03	59.55
		Rampore Haut	2.78	17.00	15.65	16.28	12.89	8.08	72.68
		Bolpore	2.76	16.59	13.94	8.66	10.25	4.03	56.23
		Morarai	2.26	10.21	19.69	10.62	7.00	7.11	56.89
		Ranaghat	2.91	15.04	11.87	7.72	11.02	7.50	55.96
EAST BENGAL.	Nuddea	Kishnaghur	5.27	14.31	13.07	9.11	12.13	7.67	61.56
		Chooadanga	4.58	10.17	8.76	8.23	8.08	8.27	48.09
		Meherpore	2.36	11.97	13.45	8.98	9.06	13.25	53.07
		Kooshtea	7.38	9.58	10.80	8.89	10.15	6.99	54.79
		Satkhira	8.39	13.32	10.53	11.42	6.82	7.04	57.52
	Khoolna	Bagirhat	6.13	20.84	15.53	8.61	5.66	6.35	63.12
		Khoolna	5.73	15.74	12.79	7.27	4.86	7.99	54.38
		Nakipore	10.71	15.58	9.53	15.05	9.03	15.13	75.03
		Rampal	5.94	15.54	15.40	9.51	8.38	11.44	66.21
		Narail	8.08	14.45	7.87	8.45	1.83	12.01	52.69
CHITTAGONG.	Jessore	Jessore	5.28	19.92	9.10	12.59	6.09	9.76	62.74
		Jhenidah	4.38	10.54	20.29	8.53	7.13	5.95	56.82
		Magoora	6.25	11.88	8.35	11.22	2.48	5.19	45.37
		Bongong	4.60	10.52	8.59	6.59	7.86	8.50	46.66
		Kandi	3.40	12.40	19.22	13.27	12.67	4.81	65.77
	Moorshedabad.	Berhampore	1.76	10.79	20.50	11.29	8.52	7.61	60.47
		Lalbagh	2.03	10.85	23.07	10.86	9.66	7.59	64.06
		Azimgunge	4.87	13.36	14.13	9.33	9.93	6.85	58.47
		Jungipore	0.96	12.48	11.65	10.71	7.53	8.46	51.79
		Lalgola	6.82	10.45	17.54	10.21	10.78	9.30	65.10
DACCÀ.	Chittagong Hill Tracts.	Jiagunge	4.71	12.22	12.79	?	?	?	?
		Akhrigunge	3.96	12.03	18.48	7.79	11.26	8.63	62.15
		Patkabari	1.80	13.60	13.40	?	10.60	6.00	?
		Cox's Bazar	7.35	34.10	45.12	26.45	11.79	3.39	128.20
		Chittagong	2.49	16.48	51.28	22.39	11.01	4.38	108.03
	Backergunge.	Kutubdia	6.62	15.57	43.42	25.39	15.54	6.30	112.84
		Sathanya	4.37	13.40	33.83	17.55	10.61	3.35	83.11
		Rangamati	7.58	14.11	20.96	17.14	7.92	3.60	71.31
		Ruma	10.34	15.43	24.46	13.63	10.70	5.00	79.56
		Patuakhally	6.05	17.28	21.98	15.96	8.25	9.49	79.01
HILL TIPPERAH.	Noakholly	Perozepore	5.61	17.94	18.57	8.45	7.17	5.17	62.91
		Burrusal	7.08	18.34	18.27	8.52	7.43	7.07	66.71
		Bhola	6.77	11.61	19.04	16.56	4.51	6.81	65.27
		Gournaddi	3.90	13.78	11.39	6.40	4.50	5.49	45.46
		Bauphal	7.00	12.78	21.21	14.97	8.62	8.94	73.52
	Furreedpore	Noakholly	10.87	16.77	24.91	20.34	12.93	10.08	95.90
		Fenny	10.41	22.80	26.66	28.54	9.16	7.53	105.10
		Harishpore	12.20	27.68	46.20	55.78	21.30	10.90	174.06
		Ramganj	9.75	17.77	19.81	11.85	3.97	4.80	67.95
	Daccà.	Madaripore	5.72	7.62	11.01	7.62	2.08	8.71	42.76
		Furreedpore	5.21	10.87	11.02	14.47	4.04	7.38	52.99
		Goalundo	6.19	8.72	11.40	8.04	6.17	6.49	47.01
	Hill Tipperah.	Munshigunge	12.11	13.80	13.95	12.00	3.43	4.17	59.46
		Dacca	13.17	11.08	15.72	11.30	1.98	6.06	59.31
		Naraingunge	12.69	12.82	18.24	14.43	1.99	3.26	63.43
		Manickgunge	7.15	15.47	11.82	12.48	6.87	7.23	61.02
		Joydebpore	12.85	14.40	14.26	14.10	8.02	6.35	69.98

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
EAST BENGAL— concl'd.	Tipperah ...	Comilla ...	10·44	13·92	21·17	12·73	4·84	8·21	71·31
		Chandpore ...	9·02	15·39	12·82	12·74	4·52	5·12	59·61
		Brahmneria ...	10·29	13·30	16·55	9·61	4·92	5·37	60·04
		Ramchandrapore	10·12	14·87	27·55	14·80	5·87	8·45	81·66
		Nasirnagar ..	14·94	9·68	8·19	5·15	2·85	1·80	42·61
		Daudkandi ...	5·18	9·83	5·29	4·30	2·90	5·21	32·71
		Kusba ...	13·80	23·74	17·95	2·18	0·62	0·84	59·13
		Laksham ...	11·45	16·40	25·44	12·80	3·63	3·22	72·94
	Mymensingh	Kishoregunge ...	11·84	18·30	13·81	14·85	7·98	6·10	72·88
		Atia (<i>Tangail</i>) ...	14·82	11·01	11·10	8·19	4·87	8·95	58·94
		Mymensingh ...	10·93	20·46	19·37	12·90	9·86	8·88	82·40
		Jamalpore ...	9·91	22·80	16·15	10·21	14·10	10·29	83·46
		Netrokona ...	9·17	25·81	24·77	18·27	10·60	10·92	99·54
		Subornakhally ...	7·95	9·19	13·57	5·32	16·80	6·86	59·69
		Durgapore ...	13·73	32·23	29·92	26·61	12·45	11·83	120·77
		Sherepore Town ...	9·09	18·07	13·49	8·17	12·58	9·48	70·88
		Dewanganj ...	12·09	17·59	15·78	9·43	9·94	11·02	75·85
NORTH BENGAL.	Pubna ...	Pubna ...	4·82	11·33	8·77	9·48	8·85	4·14	47·39
		Serajgunge ...	11·14	9·66	12·44	8·72	15·93	7·11	65·00
	Bogra ...	Sherepore ...	4·83	16·12	14·87	14·72	17·59	10·18	78·31
		Nowkhilla ...	10·23	12·15	15·04	11·66	11·50	10·18	70·76
		Bogra ...	4·87	13·80	13·82	17·08	18·44	12·06	80·07
		Panohbibi ...	5·78	23·27	10·13	12·79	18·46	13·05	83·48
	Rajshahye ...	Beauleah ...	3·69	17·03	22·67	6·91	10·82	10·43	71·55
		Nattore ...	7·35	21·28	18·23	10·16	20·82	10·00	87·84
		Nuogaon ...	6·13	15·64	16·30	6·90	13·85	9·63	68·45
		Lalpore ...	5·02	8·41	13·16	7·87	11·28	8·66	54·40
		Manda ...	3·82	8·56	12·20	5·82	6·55	12·97	49·92
	Maldah	Maldah ...	4·72	11·50	9·93	18·64	14·43	6·87	66·09
		Chanchal ...	4·55	11·02	12·65	14·55	11·47	8·33	62·57
		Gajol ...	3·47	13·48	17·00	23·39	14·39	6·52	78·25
		Sibgunj ...	6·02	13·75	14·96	7·81	7·78	13·10	63·42
NORTH BENGAL.	Dinagepore ...	Mohadebpore ...	6·12	13·91	16·98	7·50	18·02	8·51	71·04
		Churamon ...	5·49	18·08	16·64	16·93	16·44	9·78	83·36
		Raiunge ...	4·40	17·02	19·22	24·25	15·75	13·77	94·41
		Dinagepore ...	8·52	17·81	16·88	18·05	14·00	14·78	90·14
		Baloorhat ...	6·16	15·81	14·26	13·75	22·87	10·39	83·24
		Thakurgaon ...	8·45	30·56	15·56	23·23	18·42	17·31	113·53
	Rungpore ...	Bhawanigunge ... (<i>Gyabanda</i>).	10·69	23·78	16·37	15·96	42·12	20·20	129·12
		Rungpore ...	8·83	25·09	13·73	11·27	23·56	19·95	102·43
		Kurigram ...	7·29	31·01	12·92	11·43	19·07	17·57	99·29
		Bagdogra ... (<i>Nitphamari</i>)	7·96	32·18	14·99	21·07	21·85	15·37	113·40
		Ulipore ...	15·99	21·63	9·28	18·94	22·55	17·78	106·17
NORTH BENGAL.	Julpigoree ...	Julpigoree ...	7·47	40·82	41·46	31·07	21·27	18·29	160·38
		Alipore Doar ...	6·44	55·30	38·44	46·07	30·07	14·27	190·59
		Fallacotta ...	4·72	44·77	40·99	20·12	21·70	16·59	148·89
		Debijunj ...	9·71	32·63	16·54	26·52	19·78	13·22	118·40
		Bhagatpore (<i>Nagrakatta</i>) ...	10·69	29·39	56·84	37·06	37·10	15·49	186·57
	Cooch Behar	Dinhatta ...	6·55	40·74	17·32	24·73	26·37	16·98	132·69
		Cooch Behar ...	7·07	47·90	29·08	45·32	29·86	12·49	171·72
		Mickilgunge ...	9·76	47·11	25·75	37·64	19·90	13·01	153·17
		Matabhanga ...	7·48	44·07	40·12	43·35	26·01	14·14	175·17
Darjeeling Hill.	Darjeeling Hill.	Buxa ...	10·43	44·09	60·55	51·48	27·54	20·68	214·77
		Siliguri ...	9·60	32·57	69·64	25·81	30·62	13·36	181·60
		Darjeeling ...	6·11	31·32	58·63	30·21	16·09	10·62	152·98
		Kalimpong ...	3·47	21·58	52·06	19·99	15·25	12·44	124·79
		Kurseong ...	10·41	40·37	71·41	37·64	23·15	13·01	195·99

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
NORTH BEHAR.	Purneah	Kissengunge	3.51	25.42	21.52	27.97	16.21	13.32	107.94
		Arrareah	5.07	13.40	24.28	19.91	16.63	6.43	85.72
		Purneah	3.44	15.07	19.59	19.12	20.90	6.68	84.80
		Gondwara	3.10	8.28	21.07	?	?	5.04	?
		Balarampore	3.75	16.60	23.14	32.03	14.46	12.75	102.73
		Matiari	1.74	13.39	14.80	17.06	?	4.77	?
	North Bha-gulpoore.	Kaliaganj	5.39	29.15	27.12	28.17	24.69	7.40	121.92
		Maddapore	3.30	13.61	23.50	11.10	7.37	3.23	62.11
		Soopool	2.24	8.67	26.31	16.25	9.36	1.50	64.33
	Durbhunga	Protapganj	1.18	10.79	16.14	11.13	8.00	2.56	49.80
		Tajpore	1.48	8.78	21.99	11.07	8.45	0.73	52.50
		Durbhunga	2.30	11.20	22.58	15.84	5.10	2.37	59.39
		Madhubani	3.16	12.63	24.24	17.72	4.27	2.09	64.11
		Bahera	2.85	12.53	20.02	8.65	7.33	1.84	53.22
		Roshera	1.70	10.60	15.86	14.00	7.83	2.13	52.12
SOUTH BEHAR.	Mozufferpore	Sitamarhi	2.49	8.37	18.16	14.73	7.30	2.61	53.66
		Mozufferpore	1.43	9.12	23.02	15.59	5.96	1.56	56.68
		Hajipore	3.89	7.58	19.43	9.45	8.29	1.19	49.83
		Paru	1.65	9.62	22.18	18.43	13.93	6.00	71.81
		Mohua	2.53	10.83	17.73	9.64	5.00	0.76	46.49
		Siuhar	3.05	11.25	16.88	9.25	9.75	4.50	54.68
	Chumparun	Pupri	1.52	11.69	20.11	11.39	4.35	1.84	50.90
		Motihari	7.09	11.49	24.30	12.66	10.66	6.46	72.66
		Bettiah	1.60	13.80	22.46	15.18	7.49	4.89	65.42
		Bagaha	0.73	16.67	29.87	20.35	?	3.39	71.01?
		Burhuria	2.97	14.36	20.49	10.69	9.18	2.12	59.81
	Sarun	Gopalgunge	1.64	8.35	15.39	17.87	7.39	1.67	52.81
		Sewan	1.71	12.69	17.75	15.47	11.61	0.81	60.04
		Chuprah	2.91	10.06	18.70	10.03	5.54	1.95	49.19
SOUTH BEHAR.	Shahabad	Buxar	1.69	9.64	14.74	16.59	8.46	1.80	52.92
		Dehree	Nil	10.32	12.93	14.25	5.26	0.38	43.14
		Bhubooah	Nil	9.76	12.55	10.58	7.91	0.31	41.11
		Sassoram	0.37	9.93	13.55	12.82	6.70	0.94	44.31
		Arrah	1.51	11.94	28.44	12.93	8.92	3.29	67.03
		Mohaniah	Nil	7.00	13.16	9.31	6.60	?	36.07?
	Gya	Aurungabad	0.34	9.73	14.01	29.87	5.03	0.51	59.49
		Gya	0.90	11.15	21.57	20.95	6.02	0.34	60.93
		Nowadah	1.18	16.67	18.05	14.86	3.80	0.43	54.99
		Jehanabad	2.35	15.15	16.25	14.70	4.57	0.42	53.44
		Arwal	1.56	9.24	18.50	20.20	6.60	?	56.10?
		Daudnagar	0.27	3.74	11.99	8.95	4.70	0.20	29.85
		Sherghati	Nil	6.99	9.68	14.46	4.01	1.67	36.81
		Rajauli	Nil	13.04	13.37	14.91	3.48	0.80	45.60
		Pakri Barawan	0.35	9.13	14.00	14.10	3.69	2.97	44.24
		Patna	3.39	7.80	17.41	17.38	4.94	1.02	51.94
Bihar	Patna	Dinapore	3.23	7.56	14.85	16.29	9.54	1.97	53.44
		Behar	1.07	11.24	15.56	9.99	7.98	1.11	46.95
		Barrh	1.93	7.25	13.76	12.49	7.80	1.25	44.48
		Bickram	1.08	12.82	22.48	14.96	5.63	1.38	58.35
		Hilsa	2.25	14.42	13.70	11.55	7.25	1.07	50.24
		Beegooserai	2.60	10.09	14.08	10.59	5.84	2.26	45.46
Monghyr	Monghyr	Monghyr	4.18	14.50	18.63	9.95	6.80	2.36	56.42
		Jamui	1.20	18.41	21.53	11.99	4.95	2.14	60.22
		Gogra	4.39	13.11	28.30	21.16	7.59	4.34	78.89
		Sheikpura	0.30	14.89	11.64	14.83	4.13	1.97	47.76
		Bhagulpore	4.47	10.90	17.83	18.62	5.68	5.41	62.91
South Bha-gulpoore.	South Bha-gulpoore.	Banka	4.31	9.29	12.39	10.02	3.50	3.63	43.14
		Kolgong	3.91	14.82	20.93	10.64	7.89	5.77	63.96
		Bangaon	2.30	11.39	28.29	15.16	?	?	?

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR —concluded.	Sonthal Per-gunnahs.	Rajmehal ...	3.18	13.89	10.07	11.60	10.61	8.59	57.94
		Godah ...	4.75	10.81	17.18	10.30	3.65	5.66	52.35
		Pakour ...	5.89	22.76	13.40	11.88	10.70	12.19	76.82
		Nya Doomka ...	2.02	14.99	18.11	19.91	6.80	12.35	74.18
		Deoghur ...	1.91	10.65	17.50	9.84	5.35	4.18	49.43
		Jamtara ...	2.10	20.51	16.41	11.27	5.95	18.25	74.49
		Mohasama ...	1.77	14.60	11.65	15.55	3.21	3.28	50.06
		Nanihat ...	0.59	6.67	10.31	5.27	4.48	3.66	30.98
		Pachamba (<i>Giridi</i>) ...	1.53	18.20	16.38	9.57	6.74	3.08	55.50
		Hazaribagh ...	1.06	8.92	20.09	10.99	7.76	1.33	50.15
CHUTIA NAGPUR.	Lohardugga	Semtagurah ...	1.07	8.06	14.14	8.33	7.20	0.70	39.50
		Mahudi Hills ...	1.34	4.23	18.78	9.62	7.02	2.37	43.36
		Jhoomra Hills ...	0.40	14.30	20.50	10.10	10.00	1.90	57.20
		Barhi ...	0.77	8.17	17.81	16.03	4.69	3.00	50.47
		Chatra ...	1.70	7.30	17.32	16.05	3.56	2.05	47.98
		Karagdeha ...	2.02	15.58	17.04	13.73	3.08	5.89	57.34
		Ramghar ...	3.90	7.94	11.49	16.60	9.05	2.53	51.51
		Lohardugga ...	0.76	8.34	14.77	22.18	5.93	1.76	53.74
		Ranchee ...	3.27	7.99	13.62	7.76	9.29	2.54	44.47
		Palamow ...	1.48	7.27	18.12	12.87	3.85	0.59	44.18
CHUTIA NAGPUR.	Singbham	Silli ...	3.20	7.20	11.40	8.50	7.80	5.40	43.50
		Balumat ...	0.06	7.13	15.25	17.34	?	1.29	41.07
		Hosseinabad ...	0.15	7.47	9.98	14.31	9.84	Nil	41.75
		Garwah ...	Nil	7.85	9.01	15.64	5.80	Nil	38.80
		Chyebassa ...	4.25	9.04	9.42	3.48	7.18	1.73	35.10
		Chakradharpore ...	0.15	3.90	11.30	4.06	3.47	1.70	24.58
		Ghatsilla ...	4.43	11.46	16.88	5.53	9.26	5.25	52.81
		Baharagura ...	4.82	15.82	11.05	9.46	9.19	1.43	51.77
		Purulia ...	3.37	12.98	11.42	8.78	5.59	3.03	45.17
		Gobindpore ...	0.52	11.74	10.14	6.42	6.39	3.57	38.78
CHUTIA NAGPUR.	Manbham	Raghunathpore ...	2.34	14.36	17.75	16.32	8.00	3.34	62.11
		Barrabham ...	4.23	8.36	17.60	6.08	5.98	1.90	44.15
		Jhalda ...	2.36	10.29	17.26	18.17	8.82	8.51	65.41
		Chas ...	1.78	14.56	12.00	11.62	5.40	5.32	50.68

TABLE V.

Variation of the Subdivisional actual Monthly Rainfall from the normal average for the months May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ORISSA	Pooree	Pooree	-0.82	+1.73	+4.90	+2.62	+6.35	+3.85	+18.63
		Khurdah	+0.50	+3.64	+10.59	-8.78	+2.87	+2.11	+10.93
		Banpur	-1.43	-0.59	+3.08	+1.37	+8.75	+2.96	+14.14
		False Point	-1.28	+1.48	-1.88	-2.59	+4.57	+0.44	+0.74
	Cuttack	Jagatsingapore	-1.71	+2.14	+4.08	-1.32	+8.72	+2.98	+14.89
		Banki	+1.06	+1.12	+2.92	+1.00	+4.45	+1.66	+12.21
		Cuttack	+0.56	+1.74	+8.75	+2.39	+11.32	+3.09	+27.85
		Kendrapara	-0.21	-3.80	-0.54	-4.12	+7.41	+1.37	+0.11
		Jajpore	+2.34	-0.90	-1.86	-6.25	+5.07	+1.20	-0.40
	Balasore	Chandbali	-0.85	+1.98	-1.33	-5.58	+2.70	+2.47	-0.61
		Bhuddruck	-0.60	+5.68	-4.85	-5.33	+3.97	+6.71	+5.58
		Sorah	+0.21	+8.19	-5.75	-2.06	+7.94	+1.76	+10.29
		Balasore	+1.23	+4.89	-6.13	-4.92	+10.26	+2.57	+7.90
		Jellasore	+2.32	+4.51	-9.13	-2.89	+11.57	+6.02	+12.40
		Baripodah	-0.17	+4.22	-4.84	-2.49	+6.53	+5.04	+8.29
	Midnapore	Contai	+5.64	-0.14	-10.65	-7.48	+3.37	+13.52	+4.26
		Saugor Island	+1.19	-1.06	-7.91	-6.13	-0.04	+12.70	-1.25
		Tumlook	+4.40	+3.78	-1.85	-8.06	+3.87	+2.91	+5.05
		Midnapore	+0.49	+7.98	-7.86	-6.80	-0.39	+0.18	-6.40
		Ghattal	-0.60	+2.78	-2.05	-11.80	+0.97	-1.34	-12.04
		Garbetta	-0.60	+4.11	+1.69	-10.14	-0.02	+1.02	-3.94
	24-Pergun-nahs	Diamond Harbour	+1.53	+0.41	-4.27	-2.47	+1.33	+6.72	+3.25
		Alipore Jail	-0.59	+4.14	-1.82	-4.08	+2.52	+5.38	+5.55
		Barrackpore	+0.42	+2.93	-3.73	-4.26	+1.69	+5.08	+2.13
		Dum-Dum	-2.43	+3.68	-5.30	-4.78	+2.98	+7.76	+1.91
		Baraset	+0.91	+0.90	-3.92	-3.04	+0.67	+6.81	+2.33
		Buseerhat	-0.01	+3.56	-1.51	-2.49	-3.39	+6.66	+2.82
	Howrah	Howrah	-1.92	+2.77	-3.99	-4.07	+0.85	+2.93	-3.43
		Mohesreka (Oolooberiah).	-0.47	+16.22	-6.98	-7.54	+1.68	+1.95	+4.86
SOUTH-WEST BENGAL.	Hooghly	Serampore	+0.48	+3.15	-4.05	-3.55	+2.63	+4.31	+2.97
		Hooghly	-1.31	+5.08	-5.84	-5.48	+4.89	+2.22	-0.44
		Jehanabad	+0.07	+6.75	+1.03	-7.37	-5.24	-0.95	-5.71
	Burdwan	Culna	-1.72	+9.71	+0.62	-5.43	+4.37	+0.23	+7.78
		Burdwan	-2.09	+11.65	+7.17	-5.22	+2.74	-0.90	+13.35
		Cutwa	-1.90	+11.88	+1.44	-6.63	+5.84	+3.64	+14.27
		Raneegunge	-0.61	+9.46	-0.59	-4.20	+0.89	+5.59	+10.54
	Bankoora	Bankoora	+1.19	+2.48	+7.92	-8.11	+2.72	+0.24	+6.44
		Bishenpore	+1.63	+4.94	-1.16	-10.55	+0.73	+1.79	-2.62
		Maliara	-1.59	+11.64	+0.84	-5.88	+1.01	+2.25	+8.27
		Khatra	+0.17	-2.24	-4.34	-9.00	-2.37	+2.10	-15.68
		Raipur	+2.41	+1.39	+2.96	-9.50	+0.23	+2.36	-0.15
	Beerbboom	Bh. Soory	-2.13	+6.26	+8.28	-4.53	-1.20	+2.78	+9.46
		Hetampore	-2.25	+6.70	-0.40	-6.78	+1.26	+6.32	+4.85
		Rampore Haut...	-0.69	+7.65	+4.52	+2.73	+1.67	+4.39	+20.27
	Nuddea	Ranaghata	-2.17	+5.64	+0.99	-5.38	+4.07	+3.86	+7.10
		Kishnaghur	-1.17	+4.79	+2.75	-2.18	+4.29	+3.14	+11.62
		Choadanga	-3.27	+1.21	-1.33	-4.27	-1.76	+3.92	-5.50
		Meherpore	-3.62	+2.61	+3.34	-3.62	+1.14	+9.74	+9.59
		Kooshtea	+0.32	-0.98	-0.22	-3.07	+0.19	+2.26	-1.50

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH-WEST BENGAL —concl'd.	Khoolna	Satkhira ...	+2.46	+1.27	-2.88	-0.96	-1.89	+2.59	+0.59
		Bagirhat ...	-0.47	+8.11	+0.67	-4.25	-4.04	+1.32	+1.34
		Khoolna ...	-0.60	+3.20	+0.70	-4.93	-4.72	+3.92	-2.43
	Jessore	Narail ...	+1.52	+3.63	-1.22	-2.08	-5.25	+8.87	+5.47
		Jessore ...	-2.12	+6.79	-2.60	+0.83	-3.17	+4.40	+4.13
		Jhenidah ...	-2.09	-1.91	+10.54	-4.02	-1.58	+1.37	+2.31
		Magpoora ...	-1.53	+0.23	-1.93	+1.25	-5.51	+1.44	-6.05
		Bongong ...	-1.08	+0.90	-2.61	-6.38	-0.48	+3.90	-5.75
	Moorsheadabad	Kandi ...	-1.00	+3.04	+6.60	+1.52	+3.80	+1.11	+15.07
		Berhampore ...	-3.11	+1.31	+10.11	+0.38	-1.11	+2.41	+9.99
		Lalbagh ...	-2.78	+2.05	+12.44	-1.85	-0.46	+3.33	+12.73
		Azimgunge ...	+0.21	+4.46	+3.42	-3.35	+0.40	+1.93	+7.07
		Jungipore ...	-3.86	+3.95	+0.68	-1.08	-3.11	+4.97	+1.55
		Lalgola ...	+1.36	+1.41	+6.30	-1.26	+1.07	+5.17	+14.05
	Chittagong	Cox's Bazar ...	-3.03	+1.01	+3.81	-1.61	-2.92	-4.49	-7.23
		Chittagong ...	-6.70	-6.45	+29.15	+1.20	-2.74	-1.58	+12.88
	Chittagong Hill Tracts.	Rangamati ...	-2.31	-3.91	+2.18	-1.80	-4.64	-3.25	-13.73
		Ruma ...	+1.79	-3.99	+8.93	-1.76	-1.59	-2.39	+0.99
	Backergunge	Patuakhally ...	-1.92	-4.16	+0.15	-1.99	-4.60	+3.38	-9.14
		Perozepore ...	-1.15	+1.96	+2.11	-6.68	-3.98	-0.32	-8.06
		Burrusal ...	-0.52	+1.83	+1.49	-4.67	-4.01	+2.29	-3.59
		Bhola ...	-0.04	-8.58	+0.55	-2.52	-7.30	+0.55	-17.34
	Noakholly	Noakholly ...	+1.43	-6.90	+3.55	-2.88	-3.39	+2.40	-5.79
		Fenny ...	-0.09	-3.43	+3.02	+3.95	-6.85	+1.39	-2.01
EAST BENGAL.	Furreedpore	Madariapore ...	-3.10	-5.47	-1.58	-4.58	-6.22	+4.69	-16.26
		Furreedpore ...	-3.22	-1.98	-1.65	+2.26	-5.35	+3.06	-6.88
		Goalundo ...	-1.24	-2.35	-0.49	-3.50	-1.94	+1.89	-7.63
	Dacca	Munshigunge ...	+3.06	-2.37	-2.17	-2.72	-8.77	-1.07	-14.04
		Dacca ...	+4.14	-1.92	+2.76	-1.09	-7.97	+0.97	-3.11
		Naraingunge ...	+3.85	-1.14	+2.55	+1.96	-7.31	-1.04	-1.13
		Manickgunge ...	-1.51	+5.85	-0.29	+0.77	-1.01	+3.45	+7.26
	Hill Tipperah	Agartola ...	+1.84	+1.97	+5.01	-5.86	-1.83	?	?
	Tipperah	Comilla ...	+0.07	-4.42	+3.27	-4.04	-6.59	+2.97	-8.74
		Chandpore ...	+0.40	-1.39	-2.29	-6.78	-7.28	-1.36	-18.70
		Brahmunberia ...	-0.73	-2.23	+5.38	-3.35	-6.69	+0.68	-6.94
	Mymensingh	Kishoregunge ...	+0.99	-0.56	+0.88	+1.73	-4.26	+0.92	-0.30
		Atia (<i>Tangail</i>) ...	+7.93	-1.76	-0.07	-3.77	-4.40	+4.05	+1.78
		Mymensingh ...	-1.09	-0.13	+3.28	-1.62	-4.17	+3.49	-0.24
		Jamalpore ...	+0.79	+7.56	+3.68	-3.50	+0.40	+5.43	+13.36
		Netrokona ...	-1.88	+4.03	+7.91	+1.30	-3.08	+3.65	+11.93
	Pubna	Pubna ...	-1.99	+0.21	-1.94	-3.19	-2.21	-0.43	-9.97
		Serajgunge ...	+3.31	-1.44	+1.49	-2.50	+6.45	+2.82	+10.13
NORTH BENGAL.	Bogra	Sherpore ...	-3.64	+4.41	+2.16	+2.43	+7.65	+6.23	+19.24
		Nowkhilla ...	+2.44	-0.49	+3.57	+0.86	+2.08	+5.42	+13.88
		Bogra ...	-3.92	-1.29	-2.01	+4.82	+6.68	+7.53	+11.81
		Panchibibi ...	-1.87	+12.24	-2.27	+1.36	+8.05	+9.06	+26.57
	Rajshahye	Beualeah ...	-1.90	+6.52	+11.18	-3.83	-0.03	+5.66	+17.60
		Nattore ...	+0.56	+11.30	+6.03	-2.16	+9.09	+5.74	+30.56
		Naogaon ...	+0.66	+1.95	+5.05	-1.85	+1.02	+6.42	+13.25
	Maldah	Maldah ...	+0.85	+1.67	-0.81	+8.87	+3.65	+2.64	+16.37
		Chanchal ...	-0.25	-0.68	+0.38	+0.82	+1.22	+5.31	+6.85

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL
NORTH BENGAL —concl'd.	Dinagepore	Mohadebpore ..	-0.12	+1.11	+6.17	-5.15	+6.43	+5.51	+13.95
		Churamon ..	+0.72	+5.64	+4.35	+5.75	+3.53	+6.75	+26.74
		Raiunge ..	-1.99	+3.28	+6.53	+11.70	+5.40	+10.21	+35.13
		Dinagepore ..	+0.59	+0.97	+1.89	+4.84	+1.38	+10.06	+19.73
		Baloorhat ..	-0.38	+2.97	+3.76	+4.12	+10.62	+6.22	+27.31
	Rungpore	Bhawanigunge (<i>Gyabanda</i>) ..	+1.58	+8.09	+4.46	+5.67	+30.45	+15.37	+65.62
		Rungpore ..	-1.84	+4.06	-2.04	-1.73	+10.50	+15.19	+24.14
		Kurigram ..	-6.29	+7.00	-0.45	+0.57	+6.36	+13.39	+20.58
		Bagdogra ..	-3.91	+6.83	+1.41	+5.90	+7.02	+11.48	+28.73
	Julpigoree ..	Julpigoree ..	-4.01	+11.70	+15.40	+5.16	-2.32	+13.04	+38.97
NORTH BEHAR.	Cooch Behar	Dinhatta ..	-7.82	+9.51	+1.13	+9.03	+5.17	+12.24	+29.26
		Cooch Behar ..	-7.50	+11.28	+6.73	+24.29	+8.40	+7.28	+50.48
		Mickligunge ..	-3.25	+19.60	+4.51	+15.62	-2.99	+8.80	+42.29
		Matabhanga ..	-5.48	+11.84	+18.94	+21.00	+3.27	+8.90	+58.47
	Darjeeling Hill.	Buxa ..	-10.50	-0.10	+12.87	+7.88	-4.31	+10.72	+16.56
		Siliguri ..	+0.69	+5.72	+36.78	+3.48	+13.73	+7.89	+68.29
		Darjeeling ..	-1.46	+7.30	+28.27	+3.54	-1.33	+4.52	+40.84
		Kalimpong ..	-2.17	+2.53	+25.29	-0.37	+4.18	+7.43	+36.39
	Purneah	Kissengunge ..	-2.91	+10.03	+5.02	+12.26	+2.42	+10.19	+37.01
		Arrareah ..	-0.70	+0.41	+8.10	+6.41	+3.35	+3.10	+20.67
		Purneah ..	-1.05	+4.21	+5.46	+4.72	+7.43	+2.92	+23.69
	North Bha-gulpore.	Maddapore ..	-1.01	+5.28	+11.49	-0.76	-2.92	-1.09	+10.99
		Soopool ..	-1.74	-0.30	+14.97	+4.37	-0.04	-1.22	+16.04
	Durbhunga	Tajpore ..	-0.79	+1.32	+9.68	+0.58	+0.45	-2.27	+8.97
		Durbhunga ..	-0.32	+3.36	+10.56	+4.70	-4.23	-0.45	+13.62
		Madhubani ..	+0.13	+4.18	+13.40	+7.25	-5.63	-0.39	+18.94
	Mozafferpore	Sitamarhi ..	-0.15	+0.53	+7.29	+5.21	-1.95	-0.04	+10.89
		Mozafferpore ..	-0.93	+2.31	+12.08	+5.34	-2.27	-1.31	+15.22
		Hajipore ..	+1.86	+1.04	+7.22	-1.19	+1.19	-2.57	+7.55
		Chumparun ..	+4.65	+3.24	+13.34	+0.43	+1.97	+2.90	+26.53
	Sarun	Motihari ..	-1.06	+5.45	+9.47	+3.06	-1.83	+1.51	+16.60
		Gopalgunge ..	-0.91	+2.22	+2.64	+7.01	+0.03	-2.70	+8.29
		Sewan ..	-0.09	+6.03	+6.07	+4.58	+2.78	-3.00	+16.37
	Shahabad	Chuprah ..	+1.47	+3.89	+7.85	+0.68	-1.67	-0.98	+11.24
		Buxar ..	+0.70	+4.88	+3.67	+6.53	+1.03	-1.40	+15.41
		Dehree ..	-1.21	+5.67	+1.68	+1.45	-2.11	-2.20	+3.28
		Bhubooah ..	-1.12	+4.70	+0.18	-1.42	+1.21	-2.80	+0.75
		Sassaram ..	-0.75	+4.93	+1.97	+0.57	-0.25	-2.54	+3.93
SOUTH BEHAR.	Gya	Arrah ..	-0.02	+5.49	+15.82	+2.58	+0.57	+0.35	+24.79
		Aurungabad ..	-1.29	+4.52	+1.62	+16.89	-2.12	-2.13	+17.49
		Gya ..	-0.35	+5.02	+9.76	+10.34	-1.13	-2.00	+21.64
		Nowadah ..	-0.73	+11.31	+6.18	+3.38	-3.04	-2.07	+15.03
	Patna	Jehamabad ..	+0.70	+10.24	+4.02	+1.80	-1.15	-2.91	+12.70
		Patna ..	+1.65	+1.08	+6.81	+7.38	-2.93	-1.79	+12.20
		Dinapore ..	+1.58	+1.16	+3.14	+4.79	+2.92	-1.03	+12.56
	Monghyr	Behar ..	-1.09	+5.07	+2.52	-1.34	+1.60	-1.95	+4.81
		Barrh ..	-0.39	+2.37	+1.03	+2.69	-0.08	-1.78	+3.84
		Beegooserai ..	+0.25	+4.08	+2.69	+0.26	-1.45	-0.74	+5.09
		Monghyr ..	+2.06	+7.91	+6.91	-0.77	-1.64	-1.45	+13.02
		Jamui ..	-0.93	+12.06	+9.23	-0.15	-2.34	-0.39	+17.48

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR —concl'd.	South Bhagulpore.	Bhagulpore ...	+1.80	+2.76	+6.27	+7.82	-9.24	+1.48	+17.89
		Banka ...	+1.74	+1.79	+1.97	-1.53	-4.53	+0.20	-0.36
	Sonthal Per-gunnahs.	Rajmehal ...	-1.75	+3.87	-2.84	+0.97	-1.25	+5.56	+4.56
		Goddha ...	+1.20	+4.11	+5.97	-1.65	-5.88	+2.72	+6.47
		Pakour ...	+1.21	+11.98	-0.16	-1.24	-2.46	+7.74	+17.02
		Nya Doomka ..	-1.61	+6.20	+4.62	+5.84	-3.47	+8.47	+20.05
		Deoghur ...	-1.10	+2.53	+3.86	-2.53	-3.19	-0.18	-0.61
		Jamtara ...	-1.29	+12.61	+2.87	-1.97	-1.88	+15.22	+25.56
CHUTIA NAGPUR.	Hazaribagh	Pachamba ...	-0.72	+10.36	+3.09	-3.37	-1.92	-0.13	+7.31
		Hazaribagh ...	-0.66	+0.98	+7.08	-2.15	-0.06	-1.96	+3.23
		Semtagurah ...	-1.51	+0.45	+1.36	-3.95	-0.84	-2.11	-6.60
		Mahudi Hills ...	-0.80	-2.82	+5.95	-4.33	-2.50	-0.09	-4.59
		Jhoomrah Hills	-2.22	+3.97	+3.63	-6.28	-0.82	-0.93	-2.65
	Lohardugga	Lohardugga ...	-1.51	+0.37	+2.28	+6.97	-3.23	-0.52	+4.36
		Raneeche ...	+0.91	+0.35	+1.20	-4.51	+1.10	-0.51	-1.46
		Palamow ...	+0.13	+1.36	+5.21	+0.84	-4.10	-2.07	+1.37
	Singbhoom ...	Chyebassa ...	+0.43	+1.03	-4.58	-10.30	-1.20	-1.21	-15.83
	Manbhoom...	Furulia ...	+0.61	+4.21	-0.02	-4.18	-2.21	-0.57	-2.16
		Gobindpore ...	-1.48	+4.74	-1.73	-6.07	-0.83	-0.43	-5.80

TABLE VI.

Percentage variation of the monthly Rainfall of the Sub divisional Rainfall-registering Stations in Bengal, from the normal average rainfall for the months of May to October 1890.

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL
ORISSA	Pooree	Pooree ...	-31	+22	+49	+24	+64	+47	+39
		Khurdah ...	+15	+40	+84	-70	+28	+32	+20
		Banpur ...	-8	-8	+28	+11	+89	+43	+29
		False Point ...	-35	+17	-13	-12	+41	+4	+1
	Cuttack	Jagatsingapore ...	-62	+28	+37	-12	+101	+46	+31
		Banki ...	+51	+11	+25	+10	+47	+34	+25
		Cuttack ...	+17	+17	+71	+21	+117	+57	+43
		Kendrapara ...	-5	-45	-5	-31	+81	+23	0
		Jajpore ...	+54	-9	-14	-50	+51	+23	-1
24-Pergunnahs.	Balasore	Chandbali ...	-17	+27	-11	-47	+24	+41	-1
		Bhuddruck ...	-12	+65	-40	-47	+38	+151	+11
		Sorah ...	+4	+124	-48	-18	+71	+34	+20
		Balasore ...	+25	+50	-52	-38	+81	+39	+13
		Jellasore ...	+64	+57	-67	-25	+110	+139	-24
		Baripodah ...	-4	+42	-39	-20	+55	+115	+11
	Midnapore	Contai ...	+128	-1	-74	-53	+29	+167	+7
		Saugor Island ...	+27	-10	-31	-38	0	+140	-2
		Tumlook ...	+94	+42	-15	-55	+46	+69	+9
		Midnapore ...	+9	+84	-57	-55	-5	+4	-12
		Ghatal ...	-12	+28	-15	-73	+11	-40	-21
SOUTH-WEST BENGAL.	Howrah	Garbetta ...	-16	+53	+12	-77	-0	+40	-8
		Diamond Harbour ...	+31	+4	-29	-16	+12	+131	+5
		Alipore Jail ...	-11	+42	-14	-29	+25	+125	+10
		Barrackpore ...	+8	+33	-30	-34	+25	+153	+4
		Dum-Dum ...	-41	+38	-44	-36	+34	+181	+4
		Baraset ...	+16	+9	-35	-24	+7	+156	+4
	Hooghly	Buseerhat ...	0	+33	-12	-19	-39	+15	+5
		Howrah ...	-38	+26	-32	-30	+9	+70	-6
		Mo h es reka (Oolooberiah.)	-8	+18	-52	-51	+20	+58	+8
Nuddea	Burdwan	Serampore ...	+10	+33	-31	-27	+33	+105	+5
		Hooghly ...	-23	+47	-48	-42	+64	+56	-1
		Jehanabad ...	+1	+73	+8	-45	-54	-23	-10
	Bankoora	Culna ...	-36	+116	+5	-45	+67	+6	+16
		Burdwan ...	-41	+124	+59	-42	+33	-21	+26
		Cutwa ...	-36	+120	+14	-52	+71	+95	+28
		Raneegunge ...	-20	+112	-4	-31	+12	+172	+21
	Beerhoom	Bankoora ...	+35	+26	+62	-65	+32	+5	+12
		Bishenpore ...	+33	+47	-9	-75	+8	+63	-4
		Maliara ...	-57	+113	+5	-44	+15	+61	+15
		Khatra ...	+5	-20	-30	-68	-25	+54	-28
		Raipur ...	+57	+16	+24	-67	+3	+63	0
Nuddea	Beerhoom	Bh. Soory ...	-65	+62	+66	-34	-12	+78	+18
		Hetampore ...	-69	+61	-3	-52	+12	+222	+9
		Rampore Haut ...	-20	+82	+41	+20	+15	+119	+38
	Nuddea	Ranaghata ...	-43	+60	+9	-41	+58	+106	+14
		Kishnaghur ...	-18	+50	+27	-19	+55	+69	+23
		Chooadanga ...	-42	+14	-13	-34	-18	+92	-10
		Meherpore ...	-61	+28	+33	-29	+14	+297	+11
		Kooshtea ...	+4	-9	-2	-25	+2	+48	-2

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH - WEST BENGAL — concl.	Khoolna	Satkhira ...	+41	+11	-21	-7	-21	+58	+1
		Bagirhat ...	-7	+63	+4	-33	-42	+26	+2
		Khoolna ...	-9	+25	+5	-40	-49	+96	-4
	Jessore	Narail ...	+23	+38	-13	-19	-74	+28	+12
		Jessore ...	-28	+51	-22	+7	-34	+82	+7
		Jhenidah ...	-32	-15	+108	-32	-18	+30	+4
		Magoora ...	-19	+2	-19	+13	-69	+41	-12
		Bongong ...	-19	+9	-23	-49	-5	+85	-11
	Moorshedabad.	Kandi ...	-23	+32	+52	+13	+43	+30	+30
		Berhampore ...	-64	+14	+97	+4	-12	+46	+20
		Lalbagh ...	-58	+23	+117	-15	-5	+78	+25
		Azimgunge ...	+5	+50	+32	-27	+4	+39	+14
		Jungipore ...	-80	+46	+6	-9	-29	+142	+3
		Lalgola ...	+25	+15	+56	-11	+11	+125	+27
EAST BEN- GAL.	Chittagong	Cox's Bazar ...	-29	+3	+9	-6	-19	-57	-5
		Chittagong ...	-73	-28	+131	+6	-20	-26	+14
	Chittagong Hill Tracts.	Rangamati ...	-23	-22	+12	-10	-37	-47	-16
		Ruma ...	+21	-21	+51	-11	-13	-32	+1
	Backergunge	Patuakhally ...	-24	-19	+1	-11	-36	+55	-10
		Perozepore ...	-17	+12	+13	-44	-36	-6	-11
		Burrisal ...	-7	+11	+9	-36	-35	+48	-5
		Bhola ...	-1	-42	+3	-13	-62	+9	-21
	Noakholly	Noakholly ...	+15	-21	+17	-12	-21	+31	-6
		Fenny ...	-1	-13	+13	+12	-43	+23	-2
	Furreedpore	Madaripore ...	-35	-42	-13	-38	-75	+117	-28
		Furreedpore ...	-38	-15	-13	+19	-57	+71	-11
		Goalundo ...	-17	-21	-4	-30	-24	+41	-14
	Dacca	Munshigunge ...	+34	-15	-13	-18	-72	-20	-19
		Dacca ...	+46	-15	+21	-9	-80	+19	-5
		Naraingunge ...	+44	-8	+16	+16	-79	-24	-2
		Manickgunge ...	-17	+61	-2	+7	-13	+91	+14
	Hill Tipperah	Agartola ...	+17	+14	+43	-43	-18		
	Tipperah	Comilla ...	+1	-24	+12	-24	-58	+57	-19
		Chandpore ...	+5	-8	-15	-35	-62	-21	-24
		Brahmunberia ...	-7	-14	+48	-26	-58	+14	-10
	Mymensingh	Kishoregunge ...	+9	-3	+7	+13	-35	+18	0
		Atia (<i>Tangail</i>) ...	+115	-14	-1	-32	-49	+83	+3
		Mymensingh ...	-9	-1	+20	-11	-30	+65	0
		Jamalpore ...	+9	+50	+30	-26	+3	+112	+19
		Netrokona ...	-17	+18	+47	+8	-23	+50	+14
	Pubna	Pubna ...	-29	-2	-18	-25	-20	-9	-17
		Serajgunge ...	+42	-13	+14	-22	+68	+66	+18
NORTH BENGAL.	Bogra	Sherpore ...	-43	+38	+17	+20	+77	+158	+33
		Nowkhilla ...	+31	-4	+31	+8	+22	+114	+24
		Bogra ...	-45	-9	-13	+39	+57	+166	+17
		Panchbibi ...	-24	+111	-18	+12	+77	+227	+47
	Rajshahye	Beauleah ...	-34	+62	+97	-36	0	+119	+33
		Nattore ...	+8	+113	+49	-18	+77	+135	+53
		Naogaon ...	+12	+14	+45	-21	+8	+200	+24
	Maldah	Maldah ...	+22	+17	-8	+81	+34	+62	+33
		Chanchal ...	-5	-5	+3	+6	+12	+176	+12

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
NORTH BENGAL—concluded.	Dinagepore	Mohadebpore ...	-2	+9	+57	-41	+55	+184	+24
		Churamon ...	+15	+45	+35	+51	+27	+223	+47
		Raigunge ...	-31	+24	+51	+93	+52	+287	+59
		Dinagepore ...	+7	+6	+13	+37	+11	+213	+28
		Baloorghat ...	-6	+23	+36	+43	+87	+149	+49
	Rungpore	Bhawaniunge (Gyabanda) ...	+17	+52	+38	+55	+261	+318	+103
		Rungpore ...	-17	+19	-13	-13	+80	+319	+31
		Kurigram ...	-46	+29	-3	+5	+50	+320	+26
		Bagdogra (Nilphamari) ...	-33	+27	+10	+32	+47	+295	+34
	Julpigoree	Julpigoree ...	-35	+40	+55	+20	-10	+25	+32
	Cooch Behar	Dinhatta ...	-54	+30	+7	+77	+24	+259	+28
		Cooch Behar ...	-51	+31	+30	+115	+39	+140	+42
		Mickligunge ...	-25	+71	+21	+71	-13	+209	+38
		Matabhanga ...	-42	+37	+89	+94	+14	+17	+50
	Darjeeling Hill	Buxa ...	-51	0	+27	+18	-14	+108	+8
		Siliguri ...	+8	+21	+112	+16	+81	+144	+61
		Darjeeling ...	-19	+3	+93	+13	-8	+74	+36
		Kalimpong ...	-39	+13	+94	-2	+38	+148	+42
	Purneah	Kissengunge ...	-45	+65	+30	+78	+18	+326	+52
		Arrareah ...	-12	+3	+50	+48	+25	+93	+32
		Purneah ...	-24	+39	+39	+33	+55	+78	+39
	North Bhagulpore.	Maddapore ...	-24	+63	+96	-6	-28	-25	+21
		Soopeol ...	-44	-3	+132	+37	-1	-41	+33
NORTH BEHAR.	Durbhunga	Tajpore ...	-35	+18	+79	+6	+5	-76	+21
		Durbhunga ...	-12	+43	+88	+42	-45	-16	+29
		Madhubani ...	+4	+50	+124	+69	-57	-16	+42
	Mozufferpore	Sitamarhi ...	-6	+7	+67	+55	-21	-2	+24
		Mozufferpore ...	-39	+34	+110	+52	-28	-46	+37
		Hajipore ...	+92	+16	+59	-11	+17	-69	+18
	Chumparun	Motihari ...	+192	+39	+122	+4	+23	+81	+58
		Bettiah ...	-40	+65	+78	+25	-20	+45	+34
	Sarun	Gopalgunge ...	-36	+34	+21	+65	+1	-62	+19
		Sewan ...	-5	+90	+52	+42	+32	-79	+37
		Chuprah ...	+102	+63	+72	+7	-23	-34	0
SOUTH BEHAR.	Shahabad	Buxar ...	+71	+103	+33	+65	+14	-44	+41
		Dehree ...	-100	+12	+15	+11	-29	-85	+8
		Bhubooah ...	-100	+9	+1	-12	+18	-90	+2
		Sasseram ...	-67	+99	+17*	+5	-4	-73	+10
		Arrah ...	-1	+85	+46	+25	+7	+12	+59
	Gya	Aurungabad ...	-79	+87	+18	+13	-30	-81	+42
		Gya ...	-28	+82	+83	+98	-16	-86	+55
		Nowadah ...	-38	+211	+52	+21	-44	-83	+38
		Jehanabad ...	+43	+209	+33	+14	-20	-88	+31
	Patna	Patna ...	+95	+16	+64	+74	-37	-64	+31
		Dinapore ...	+96	+18	+27	+33	+44	-34	+31
		Behar ...	-50	+82	+19	-12	+25	-64	+11
		Barrh ...	-17	+49	+8	+28	-1	-59	+9
	Monghyr	Begooserai ...	+9	+68	+24	+3	-20	-25	+13
		Monghyr ...	+97	+120	+59	-8	-20	-30	+30
		Jamui ...	-44	+190	+75	-1	-32	-11	+41

METEOROLOGICAL DIVISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
SOUTH BEHAR. —conld.	South Bha-gulpore.	Bhagulpore ...	+68	+34	+54	+73	-28	+38	+40
		Banka ...	+68	+24	+19	-13	-56	+6	-1
	Sonthal Per-gunnahs.	Rajmehal ...	-36	+39	-22	+10	-11	+183	+9
		Godda ...	+34	+61	+53	-14	-62	+93	+14
		Pakour ...	+26	+11	-1	-9	-19	+174	+28
		Nya Doomka ...	-44	+71	+34	+41	-34	+218	+37
		Deoghur ...	-36	+31	+28	-20	-37	-4	-1
	Hazaribagh	Jamtara ...	-38	+160	+21	-15	-24	+502	+52
		Pachamba (Giridi.) ...	-32	+132	+3	-26	-22	-4	+15
		Hazaribagh ...	-38	+12	+54	-16	-1	-60	+7
		Semtagurah ...	-58	+6	+11	-32	-10	-75	-14
CHUTIA NAGPUR.	Lohardugga	Mahudi Hills ...	-37	-40	+4	-31	-26	-4	-10
		Jhoomra Hills ...	-85	+39	+22	-38	-8	-32	-4
		Lohardugga ...	-66	+5	+18	+46	+35	-23	+9
	Singbham	Ranchee ...	+39	+5	+10	-37	+13	-17	-3
		Palamow ...	+10	+23	+40	+7	-1	-78	+3
	Manbham	Chyebassa ...	+11	+13	-33	-75	-14	-41	-31
		Purulia ...	+22	+48	0	-32	-28	-16	-5
		Gobindpore ...	-74	+68	-15	-49	-11	-11	-13

METEOROLOGICAL OFFICE, BENGAL,

The 13th December 1889.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

LIBERALITY OF THE RAJAH OF DASPALLA IN THE TRIBUTARY STATES OF ORISSA.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 29th December, 1890.

RESOLUTION.

READ—

A letter from the Superintendent of Tributary States, Orissa, No. 2111P, dated the 13th November 1890, regarding the offer of the Rajah of the Tributary State of Daspalla to found a scholarship.

Read also—

A letter from the Director of Public Instruction, No. 6900, dated the 14th December 1890, reporting on this subject.

The Superintendent of the Tributary States of Orissa has reported that the Rajah of Daspalla has offered to make over Rs. 1,200 in order to establish, out of the interest of that sum, a scholarship of Rs. 4 a month awardable to a student of the Daspalla State Middle Vernacular School after passing the Middle Vernacular Scholarship Examination, the scholarship being called the "Worsley Scholarship," and being tenable for four years in the Ravenshaw Collegiate School, Cuttack. The Lieutenant-Governor is pleased to accept the offer, and tenders his thanks to the Rajah for his liberality. The Superintendent of the Tributary States will be the administrator of the fund, and the Rajah should be informed that his remittance to the Treasury should cover the market value of the note, plus 5 per cent. to cover incidental charges attendant on the purchase, it being understood that the 5 per cent. deposit is an advance subject to account.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Superintendent of the Tributary States, Orissa, for information and communication to the Rajah of Daspalla, and that a copy be forwarded to the Director of Public Instruction for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 27th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
1	Burdwan Dec. 27, '90	Nil	Weather—bright and cold. <i>Amun</i> nearly all harvested. <i>Rubbi</i> looking well. Prices of common rice :—
			Srs. Sudder 18½ Cutwa 18½ Ranigunge 18 } per rupee. Culna 18½
2	Bankura .. 27, '90	Nil	Weather—seasonable, but not so cold as it should be. Harvesting of <i>amun</i> nearly finished. <i>Rubbi</i> and sugarcane doing well. Common rice selling at 20 seers per rupee at Sudder and 20½ seers at Bissenpore.
3	Birbhum .. 27, '90	Nil	Weather—bright and cold. Winter rice now practically gathered in. Price of common rice unchanged at from 19 to 22 seers per rupee.
4	Midnapur .. 27, '90	Nil	Weather—cool and fair. Reaping of paddy nearly finished; total outturn above average. <i>Rubbi</i> and indigo doing well. Prices of common rice :—
			Srs. Sudder 18 Contai 18 } per rupee. Tamluk 17½ Ghatal 17 }
5	Hooghly .. 27, '90	Nil	Weather—cold. Harvesting of <i>amun</i> paddy nearly finished. Winter crops look healthy. Prices of common rice :—
			Srs. Sudder 14 Scrampore 14 } per rupee. Jehanabad 16½ }
6	Howrah .. 27, '90	Nil	Weather—seasonable. Harvesting of winter paddy continues; outturn good. Price of common rice 14½ seers per rupee.
<i>Central Districts.</i>			
7	24-Perga. Dec. 30, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues with favourable outturn. <i>Rubbi</i> crops progressing well. Prices stationary.
8	Nuddea .. 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> rice almost over, and that of <i>kalai</i> , <i>mung</i> , and <i>til</i> going on. Prospects fairly good.
9	Khoyna .. 27, '90	Nil	Weather—seasonable. Reaping of <i>ekholán amun</i> nearly completed, and that of <i>boran</i> has commenced; outturn very good in all parts of the district except in the inundated tracts. Prices are slowly falling. Winter crops doing well except in parts of the Satkhira subdivision where they have been damaged by locusts. <i>Boro</i> is being transplanted.
10	Jessore .. 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Prospects of winter crops good. Prices of rice stationary.
11	Moorshedabad .. 27, '90	Nil	Weather—cold. <i>Amun</i> is still being harvested. Prospects of <i>rubbi</i> favourable.
12	Dinagepur .. 27, '90	Nil	Weather—seasonable. Prospects of crops good. Price of rice as before.
13	Rajshahye .. 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> paddy and sugarcane in progress. Condition of winter crops good. Tobacco transplantation almost finished. Ganja plants thriving.
14	Rungpur .. 27, '90	Nil	Weather—cold with east wind. Harvesting of <i>amun</i> still going on. Some damage has been done by insect pest. Prospects on the whole continue good.
15	Bogra .. 27, '90	Nil	Weather—seasonable. Slight injury to the winter rice crop is reported from thana Shilbungo (north) by caterpillars; but the harvest is going on with good outturn, and the spring crops are doing well. Common rice is selling at 14½ seers per rupee.
16	Pubna .. 27, '90	Nil	Weather—clear. Rain wanted for mustard; prospects otherwise good.
17	Darjeeling .. 27, '90	Nil	Weather—cold and misty. Winter rice, <i>marua</i> , and <i>phafar</i> are being harvested. Potato doing fairly well. Prospects good.
18	Julpigores .. 27, '90	Nil	Weather—cool and cloudy with morning fogs. Prospects of crops continue satisfactory. Harvesting of <i>haimanti</i> paddy going on. Price of rice stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
DACC DIVE.	19 Dacca Dec. 27, '90	Nil	Weather—seasonably cold and fine. <i>Amun</i> and <i>roachia</i> paddy being harvested. Winter crops doing well. Price of common rice from 13 to 18 seers per rupee.
	20 Furreedpur „ 27, '90	Nil	Weather—seasonably cold and bright. Harvesting of <i>amun</i> continues. Prospects of winter crops fair. Coarse rice selling at from 17 to 18 seers per rupee
	21 Backergunge „ 27, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice is selling at from 15 to 18 seers per rupee.
	22 Mymensingh „ 27, '90	Nil	Weather—cold. Prospects of crops good. Harvesting of winter rice continues. Rice selling at 16 seers per rupee.
CHITTAGONG DIVE.	23 Chittagong „ 30, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> commenced; very good outturn expected. Vegetable crop thriving. Prices steady.
	24 Noakholly „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues. <i>Rubbi</i> crops progressing. Price of good rice is varying from 15 to 19 seers and coarse rice from 16 to 21 seers per rupee in the different parts of the district.
	25 Tipperah „ 27, '90	Nil	Weather—seasonable. Cutting of <i>amun</i> paddy over. Cold-weather crops prospering.
	26 Chittagong Hill Tracts. 25, '90	Nil	Weather—seasonable; very cold throughout the week. Harvesting of cotton nearly at an end. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIVE.	27 Patna „ 27, '90	Nil	Weather—cold. Harvesting of paddy and <i>jowar</i> in progress. <i>Rubbi</i> crops growing well, but rain wanted. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
	28 Gya „ 27, '90	Nil	Weather—cold with west wind. Prospects of <i>rubbi</i> and poppy continue good. Harvesting of paddy about to be completed. Prices of food-grains stationary.
	29 Shahabad „ 27, '90	Nil	Weather—bright and cold. Prospects of crops good.
	30 Durbhunga „ 27, '90	Nil	Weather—cool: west winds prevailing. Harvesting of rice still going on. <i>Rubbi</i> crops look promising. Poppy and tobacco doing well. Prices remain stationary.
BRAJGULFORD DIVE.	31 Mozufferpur „ 27, '90	Nil	Weather—cool. Harvesting of paddy in progress. <i>Rubbi</i> crops look promising. Prospects of poppy crop continue good.
	32 Saran „ 27, '90	Nil	Weather—colder than the preceding week. Harvesting of paddy completed. Prospects of <i>rubbi</i> and poppy crops continue favourable.
	33 Chumparun „ 27, '90	Nil	Weather—very cold: occasionally cloudy. Prospects of all standing crops, including poppy, are very good, though a shower of rain will be beneficial to them. Harvesting of paddy approaching completion.
	34 Monghyr „ 27, '90	Nil	Weather—seasonable: cool and clear. Harvesting of winter rice nearly completed. <i>Rubbi</i> crops promising.
	35 Bhagulpore „ 27, '90	Nil	Weather—seasonable. Harvesting of paddy crop going on. Standing crops promising.
	36 Purneah „ 27, '90	Nil	Weather—cold and clear. <i>Aghani</i> harvesting continues; outturn nearly 16 annas. <i>Rubbi</i> crops progressing favourably.
	37 Maldah „ 27, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Other crops doing well. <i>Kalai</i> gathering going on. Price of common rice has fallen.
	38 Sonthal Perghs. „ 27, '90	Nil	Weather—seasonable. Paddy harvesting still continues. Prospects of <i>rubbi</i> are excellent.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	49 Cuttack Dec. 27, '90	Nil	Weather—seasonable. Harvesting of <i>guru sarad</i> rice nearly completed in the Jajpur subdivision. <i>Rubbi</i> crops doing well. Planting of tobacco continues. General prospects good.
	40 Pooree , 25, '90	Nil	Weather—seasonable. <i>Sarad</i> crop is being harvested. <i>Dalaa</i> crops are being sown. <i>Rubbi</i> crops (mustard and <i>kulthi</i>) are in ear. Price of common rice from 21 to 28 seers per rupee.
	41 Balasore , 27, '90	Nil	Weather—warm for the time of year. The late winter rice crop is still being harvested.
CHOTA NAGPORE.			
CHOTA NAGPORE DIVN.	<i>South-West Frontier Agency.</i>		
	42 Hazaribagh Dec. 27, '90	Nil	Weather—seasonable. Harvesting of winter rice finished. Rain wanted for <i>rubbi</i> crops. Poppy promising.
	43 Lohardugga , 27, '90	Nil	Weather—cold. Harvesting of winter rice nearly finished. Rain wanted for <i>rubbi</i> crops.
	44 Singbham , 27, '90	Nil	Weather—seasonable. Winter crops doing well. Paddy nearly all harvested.
	45 Manbham , 27, '90	Nil	Weather—seasonable. Harvesting of paddy nearly over; outturn 14 annas. <i>Rubbi</i> crops are being gathered. Rice selling at from 20 to 28 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 30th December, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.		DISTRICT.	Representative station.	STATION OBSERVATIONS.														
				AIR PRESSURE.			WIND.			TEMPERATURE.								
				Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Precipitating direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.		
ORISSA.	SOUTH-WEST BENGAL.	Pooree	...	30°098	30°111	—	N.-Ely.	182	82°6	21, 23, 24 Dec.	60°6	25th Dec.	81°7	66°4	74°1	—	70°8	
		Gopalpore	...	30°090	30°112	+·023	NNW N	206 144	83°7	23rd	61°9	26th	81°6	67°0	74°3	+5°6	73°5	
		False Point	...	30°081	30°114	+·008	& Calm	206 144	84°9	23rd	53°5	26th	80°2	60°7	70°5	+5°1	68°5	
		Cuttack	...	30°045	30°129	+·025	N.-Ely. & Calm	26	87°4	23rd	58°8	25, 26	85°0	64°0	74°0	+6°1	68°7	
		Balasore	...	30°076	30°138	+·024	Variable	44	83°4	23rd	53°5	25th	80°3	68°4	69°4	+5°2	64°2	
		South-West Midnapore	...	30°094	30°121	+·018	NNE	199	78°2	20, 23	53°8	26th	76°2	59°6	67°9	+2°4	63°9	
		South 24-Pergunnahs	...	Saugor Island	30°124	+·018	NNE	199	78°2	20, 23	53°8	26th	76°2	59°6	67°9	+2°4	63°9	
		Midnapore	...	29°975	30°133	+·015	N	174	84°3	23rd	51°2	26th	80°9	56°3	68°6	+3°3	62°3	
		24-Pergunnahs	...	Calcutta	30°104	30°127	+·019	Calm	31	81°0	23rd	51°8	26th	76°8	55°6	65°2	+2°1	60°6
		Howrah	...	Burdwan	30°031	30°138	+·020	N.-Wly. & Calm	40	81°0	23rd	52°8	26th	77°6	55°4	68°5	+1°8	59°8
SOUTH-BENGAL.	EAST BENGAL.	Burwan	...	Bankoora	29°792	30°114	+·005	W	56	81°6	23rd	51°4	25th	78°3	55°4	66°9	+2°6	60°3
		Bankoora	...	Beerhoom	29°787	30°139	+·018	NW	48	81°3	23rd	51°0	25th	77°7	55°3	66°5	+2°1	59°1
		West Burdwan	...	Raneeunge	29°787	30°139	+·018	NW	48	81°3	23rd	51°0	25th	77°7	55°3	66°5	+2°1	59°1
		Moorshedabad	...	Berhampore	30°053	30°124	+·011	North-Westerly	39	77°4	23rd	52°2	24th	75°2	54°6	64°9	+0°3	59°2
		Nuddea	...	Krishnaghur	30°069	30°121	+·023	North-Westerly	70	80°3	23rd	48°5	26th	77°3	51°8	64°5	+0°2	60°3
		Jessore	...	Khoolna	30°083	30°118	+·019	Calm	45	79°2	23rd	49°9	24th	76°3	53°8	65°0	+0°4	60°3
		Chittagong	...	Chittagong	30°004	30°099	+·020	North-Westerly	42	78°7	24th	54°4	21st	76°6	57°8	67°2	+0°8	59°7
		Chittagong Hill Tracts	...	Demagiri	...	...	...	...	Observations not received.						...	...	...
		Backergunge	...	Barrisal	30°060	30°103	+·037	Calm	40	78°3	23rd Dec.	52°1	23rd	76°2	56°0	66°1	+2°0	61°4
		Noakholly	...	Noakholly	30°060	30°106	+·037	N	101	78°0	23 & 24	50°5	20th	76°9	52°6	64°8	-0°3	62°0
NORTH BENGAL.	NORTH BHARAT.	Furreedpore	...	Furreedpore	30°016	30°118	+·031	Calm	37	74°3	22nd	52°5	20 & 26	73°7	54°1	63°9	+0°5	59°7
		Dacca	...	Dacca	30°069	30°093	+·005	NW	68	78°6	23rd	50°2	26th	76°7	53°1	63°9	-0°2	59°9
		Commillah	...	Commillah	30°064	30°102	+·019	W	15	78°4	23rd	49°6	24th	77°2	52°0	64°6	+0°2	59°8
		Mymensingh	...	Mymensingh	30°040	30°101	+·016	Calm	37	75°8	25th	50°3	24, 25	74°8	52°5	63°7	+0°6	57°7
		Bogra	...	Bogra	30°026	30°093	+·032	W & Calm	36	75°3	20, 23	?	?	74°5	?	?	?	58°1
		Purnna	...	Serajunge	30°049	30°098	+·014	W	18	76°5	23rd	49°0	24th	75°3	51°2	63°2	-0°1	58°3
		Rajshahye	...	Rampore Beaufleah	30°036	30°110	+·022	North-Westerly	44	75°1	23rd	50°7	24th	72°3	53°0	62°6	+0°3	59°0
		Maldah	...	Maldah	30°052	30°139	—	NW	87	75°5	21st	49°7	26th	74°4	50°5	62°5	—	57°7
		Dinagepore	...	Dinagepore	29°976	30°106	+·007	SW	38	76°1	22, 23	49°7	26th	75°2	51°0	63°1	+1°0	55°9
		Rungpore	...	Rungpore	29°987	30°121	+·008	North-Easterly	18	75°4	21st	49°1	26th	74°7	50°7	62°7	+1°2	58°6
SOUTH BHARAT.	CHITIA NIGER.	Julipigoree	...	Cooch Behar	29°806	30°113	+·005	?	26	75°7	25th	50°1	26th	73°9	52°2	63°1	+1°1	57°9
		Darjeeling Hill Tracts	...	Darjeeling	22°998	—	+·035	S.-Ely. & Calm	83	48°9	th	33°7	29th	46°1	35°1	49°6	-0°8	39°8
		Purneah	...	North Bhagulpore	29°985	30°124	+·011	Calm	55	75°7	23rd	43°5	24th	73°4	48°2	60°8	0	54°3
		Mozufferpore	...	Mozufferpore	29°923	30°117	—	WSW	54	75°4	23rd	47°0	24th	72°9	50°1	61°6	—	55°6
		Durbhungs	...	Durbhungs	29°948	30°128	+·002	Westerly	77	75°9	23rd	45°9	24th	73°4	51°0	62°5	+0°4	56°5
		Chumparon	...	Motihari	29°890	30°133	+·028	WNW	134	75°8	22nd	44°2	24th	73°6	47°4	60°5	+1°3	55°6
		Barun	...	Chupra	29°910	30°118	+·016	SW	83	75°8	23rd	47°1	24th	73°4	50°7	62°1	+0°9	54°9
		Dehree	?	Buxar	?	?	?	?	79°3	22nd	48°8	25th	75°7	53°4	64°6	+3°7	60°5	
		Arrsh	29°919	30°125	+·022	Westerly	68	75°4	23rd	47°4	24th	73°3	52°5	63°9	+1°7	57°9	+1°6	56°2
		Gya	...	Gya	29°756	30°160	+·027	S	122	77°6	22nd	47°9	25th	74°5	53°7	64°1	+2°2	58°2
NORTH BENGAL.	CHITIA NIGER.	Patna	...	Bankipore	29°941	30°138	+·004	W	72	74°7	20 & 22	48°4	24th	73°0	51°4	62°2	+1°6	56°0
		South Bhagulpore	...	Bhagulpore	29°947	30°119	+·001	Calm	17	76°8	23rd	48°0	25th	74°2	49°8	62°0	+1°2	57°9
		Menghyr	...	Doomka	29°602	30°137	+·011	Calm	55	79°1	23rd	47°3	24th	75°6	51°0	63°3	+1°5	57°7
		Sonthal Pergunnah	...	Hazaribagh	28°051	30°160	+·015	W	105	75°1	22nd	47°2	24th	71°4	52°0	61°7	+2°3	57°8
		Lohardugga	...	Ranchee	27°914	30°134	+·014	Westerly	122	78°1	22nd	44°9	23th	74°4	50°8	62°6	+3°7	59°3
		Manbhoom	...	Chyebassa	29°337	30°142	+·040	W	20	84°3	23rd	50°7	25th	0°6	56°2	65°4	+5°0	62°1
		Singbham	...	Chyebassa	29°337	30°142	+·040	W	20	84°3	23rd	50°7	25th	0°6	56°2	65°4	+5°0	62°1

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last three years. The humidity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the past three years. Stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 26th of December 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Mean for district.	DISTRICT OBSERVATIONS.										Representative station.	DISTRICT.	METEORICAL OR DIVISION.			
				RAINFALL.															
				Since 1st of month.		Since 15th May 1890.		Average number of rainy days.		Normal number of rainy days.									
Average for week.	Normal mean.	OF WEEK.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Normal number of rainy days.										
82	1'1	Nil	Nil	0'17	0'76	0'81	-0'05	66'53	55'51	+11'02	0'0	0'2	Pooree	...{	Pooree	...{			
80	0'1	Nil	Nil	0'13	0'34	0'55	-0'21	63'98	51'52	+12'46	0'0	0'2	Gopalpore	...{	Gopalpore	...{			
86	3'0	Nil	Nil	0'08	0'31	0'28	+0'03	61'57	52'92	+8'65	0'0	0'1	False Point	...{	False Point	...{			
75	3'0	Nil	Nil	0'13	0'34	0'55	-0'21	63'98	51'52	+12'46	0'0	0'2	Cuttack	...	Cuttack	...			
84	0	Nil	Nil	0'08	0'31	0'28	+0'03	61'57	52'92	+8'65	0'0	0'1	Balasore	...	Balasore	...			
88	5'1	Nil	Nil	0'05	0'05	0'34	-0'29	66'34	61'95	+4'39	0'0	0'1	Saugor Island	...{	South-West Midnapore	...{			
72	1'1	Nil	Nil	0'08	0'20	0'25	-0'05	50'20	51'07	-0'87	0'0	0'1	Midnapore	...	South 24-Parganas	...{			
85	1'4	Nil	Nil	0'07	0'23	0'30	-0'04	55'42	51'17	+4'25	0'0	0'1	Calcutta	...{	24-Perkunnahs	...{			
74	1'4	Nil	Nil	0'05	0'07	0'18	-0'11	61'48	46'31	+15'17	0'0	0'1	Burdwan	...	Burdwan	...			
80	1'9	Nil	Nil	0'12	Nil	0'28	-0'28	52'02	52'21	-0'19	0'0	0'1	Bankura	...	Bankura	...			
78	0'7	Nil	Nil	0'03	0'13	0'14	-0'01	64'66	51'75	+12'31	0'0	0'1	Ranagunge	...{	Bardhaman	...{			
83	1'7	Nil	Nil	0'01	Nil	0'14	-0'14	60'55	50'04	+10'51	0'0	0'1	Berhampore	...	West Burdwan	...{			
81	2'1	Nil	Nil	0'05	0'03	0'14	-0'11	55'03	48'77	+6'29	0'0	0'1	Krishnaghur	...	Nuddea	...			
88	0'6	Nil	Nil	0'04	0'01	0'26	-0'25	53'54	52'26	+1'23	0'0	0'1	Jessore	...{	Jessore	...{			
89	1'1	Nil	Nil	0'05	0'39	0'56	-0'17	119'45	113'14	+6'31	0'0	0'1	Chittagong	...	Chittagong	...			
			Nil	0'08	0'02	0'54	-0'52	73'34	80'34	-7'00	0'0	0'1	Demagiri	...	Chittagong Hill Tracts	...			
87	0	Nil	Nil	0'03	0'19	0'42	-0'23	63'35	70'20	-7'85	0'0	0'1	Barrisal	...	Backergunge	...			
63	0	Nil	Nil	0'02	Nil	0'81	-0'81	97'88	106'52	-8'61	0'0	0'1	Noakhilly	...	Noakhilly	...			
80	0	Nil	Nil	0'02	Nil	0'12	-0'12	45'42	54'99	-9'57	0'0	0'1	Furreedpore	...	Furreedpore	...			
88	1'6	Nil	Nil	0'03	Nil	0'24	-0'24	58'19	60'08	-1'89	0'0	0'1	Dacca	...	Dacca	...			
88	1'3	Nil	Nil	0'03	0'08	0'38	-0'30	60'19	68'03	-7'87	0'0	0'1	Commillah	...	Tipperah	...			
90	1'3	Nil	Nil	0'01	Nil	0'14	-0'14	75'85	68'54	+7'31	0'0	0'1	Mymensingh	...	Mymensingh	...			
81	0	Nil	Nil	Nil	Nil	0'14	-0'14	78'99	57'04	+21'95	0'0	0'0	Bogra	...	Bogra	...			
90	0'4	Nil	Nil	0'02	Nil	0'11	-0'11	54'95	52'91	+2'04	0'0	0'1	Serajgunge	...	Pubna	...			
82	0'6	Nil	Nil	0'01	Nil	0'13	-0'13	75'86	52'94	+22'91	0'0	0'1	Rampore Beulab	...	Rajshahye	...			
89	0	Nil	Nil	Nil	Nil	0'08	-0'08	63'14	53'67	+8'47	0'0	0'0	Maldah	...	Maldah	...			
90	0	Nil	Nil	Nil	Nil	0'16	-0'16	81'74	56'41	+25'33	0'0	0'0	Dinagepore	...	Dinagepore	...			
91	0	Nil	Nil	0'01	Nil	0'15	-0'15	106'61	73'33	+33'28	0'0	0'1	Rungpore	...	Rungpore	...			
94	0	Nil	Nil	Nil	Nil	0'14	-0'14	154'51	109'74	+44'77	0'0	0'0	Julpigoree	...{	Julpigoree	...{			
90	3'7	Nil	Nil	0'07	0'14	0'26	-0'12	165'80	120'14	+45'66	0'0	0'1	Darjeeling	...	Darjeeling Hill Tracts	...			
92	0	Nil	Nil	Nil	Nil	0'09	-0'09	80'67	58'14	+22'53	0'0	0'0	Purneah	...{	Purneah	...{			
91	0'9	Nil	Nil	Nil	Nil	0'08	-0'08	52'57	42'84	+9'73	0'0	0'0	Mozufferpore	...	Mozufferpore	...			
94	0	Nil	Nil	Nil	Nil	0'08	-0'08	57'63	44'04	+13'59	0'0	0'0	Durbhunga	...	Durbhunga	...			
86	1'4	Nil	Nil	0'02	Nil	0'19	-0'19	68'47	46'08	+22'39	0'0	0'1	Motihari	...	Chumparun	...			
89	0	Nil	Nil	0'01	Nil	0'15	-0'15	53'60	42'01	+11'59	0'0	0'1	Chupra	...	Sarun	...			
76	2'1	Nil	Nil	Nil	Nil	0'14	-0'14	154'51	109'74	+44'77	0'0	0'0	Dehri	...	Dehri	...			
76	2'3	Nil	Nil	0'04	0'12	0'31	-0'29	49'61	39'62	+9'99	0'0	0'1	Shahabad	...{	Shahabad	...{			
85	1'1	Nil	Nil	0'04	0'12	0'31	-0'29	49'61	39'62	+9'99	0'0	0'1	Buxar	...{	Buxar	...{			
74	2'4	Nil	Nil	0'05	0'02	0'23	-0'21	56'95	41'04	+15'91	0'0	0'1	Arrah	...{	Gya	...{			
80	1'1	Nil	Nil	0'01	Nil	0'13	-0'13	48'10	40'74	+7'36	0'0	0'1	Bankipore	...	Patna	...			
80	0'9	Nil	Nil	Nil	Nil	0'08	-0'08	52'25	42'62	+9'63	0'0	0'0	Bhagulpore	...{	South Bhagulpore	...{			
77	0	Nil	Nil	0'02	0'06	0'10	-0'04	63'71	50'37	+13'34	0'0	0'1	Deomka	...	Sonthal Pergunnahs	...			
74	4'0	Nil	Nil	0'07	0'01	0'26	-0'23	49'46	49'46	0	0'0	0'2	Hazaribagh	...	Hazaribagh	...			
75	2'7	Nil	Nil	0'12	Nil	0'32	-0'32	47'61	47'73	-0'72	0'0	0'2	Eanchi	...{	Lohardaga	...{			
79	0'6	Nil	Nil	0'07	0'14	0'19	-0'05	41'67	40'42	-4'75	0'0	0'1	Manthoom	...{	Chutia Nasirup	...{			
						0'59	0'38	+0'21	34'33	50'35	-16'32	0'0	0'2	Chyebassa	...	Singbhum	...		

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ten years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890.

Meteorological division.	District.	Station.	RAINFALL.						TOTAL			Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Number of rainy days.	Rainfall week.			
ORISSA	Pooree	Pooree	Nil	Nil	0'47	0'44	70'44	50'98
		Khurdah	.....	.....	.....	.....	.....	Nil	Nil	1'39	0'52	66'55	46'23
		Banpur	.....	.....	.....	.....	.....	Nil	Nil	1'17	1'15	63'02	50'38
		False Point	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'82	66'10	64'23
		Gop	.....	.....	.....	.....	.....	Nil	Nil	1	1	65'96	2
	Satpara	.....	.....	.....	.....	.....	.....	Nil	Nil	0'45	2	45'72	2
	Pipit	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	75'90	2
ORISSA	Cuttack	Jagatsingapore	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'38	63'67	46'70
		Banki	.....	.....	.....	.....	.....	Nil	Nil	1'70	0'76	67'79	48'06
		Cuttack	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'36	82'14	56'01
		Kendrapara	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'51	53'15	32'71
		Jajpore	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'72	53'15	52'80
		Dharmasala	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53'18	2
		Salipore	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52'15	2
ORISSA	Balasore	Chandbali	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'60	52'06	52'93
		Bhuddruck	.....	.....	.....	.....	.....	Nil	Nil	0'38	0'27	53'23	51'20
		Sorah	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'13	60'84	50'78
		Balasore	.....	.....	.....	.....	.....	Nil	Nil	0'46	0'40	63'59	57'41
		Jellasore	.....	.....	.....	.....	.....	Nil	Nil	1'00	0'11	66'83	51'18
		Baripodah	.....	.....	.....	.....	.....	Nil	Nil	0'05	0'15	62'96	53'58
SOUTH-WEST BENGAL	Midnapore	Contai	.....	.....	.....	.....	.....	Nil	Nil	0'08	0'41	67'81	60'96
		Saugor Island	.....	.....	.....	.....	.....	Nil	Nil	0'07	0'36	69'12	66'80
		Tumlook	.....	.....	.....	.....	.....	Nil	Nil	0'60	0'28	58'59	50'97
		Midnapore	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'17	47'47	48'11
		Ghatua	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'28	44'61	53'96
		Kukrahatty	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50'29	2
		Garbeta	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46'23	2
SOUTH-WEST BENGAL	24-Pergunnah	Diamond Harbour	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'26	62'13	57'77
		Canning Town	.....	.....	.....	.....	.....	Nil	Nil	0'02	?	68'71	?
		Alipore Jail	.....	.....	.....	.....	.....	Nil	Nil	1'19	0'35	67'98	54'92
		Barrackpore	.....	.....	.....	.....	.....	Nil	Nil	0'40	0'30	61'31	45'86
		Dum-Dum	.....	.....	.....	.....	.....	Nil	Nil	Nil	0'30	59'34	51'10
		Barasat	.....	.....	.....	.....	.....	Nil	Nil	0'37	0'31	53'41	49'84
		Busseerhat	.....	.....	.....	.....	.....	Nil	Nil	0'18	0'24	58'85	54'31
SOUTH-WEST BENGAL	Howrah	Howrah	.....	.....	.....	.....	.....	Nil	Nil	0'16	0'31	51'50	50'41
		Moheseka (Ooloheria)	.....	.....	.....	.....	.....	Nil	Nil	0'19	0'19	59'76	51'46
		Serampore	.....	.....	.....	.....	.....	Nil	Nil	0'01	0'30	55'21	49'71
		Hoochly	.....	.....	.....	.....	.....	Nil	Nil	0'14	0'29	52'19	47'70
		Jehamabad	.....	.....	.....	.....	.....	Nil	Nil	0'20	0'20	51'67	54'63
		Burdwan	Culna	.....	.....	.....	.....	Nil	Nil	Nil	0'23	54'31	43'86
SOUTH-WEST BENGAL	Burdwan	Burdwan	.....	.....	.....	.....	.....	Nil	Nil	0'21	0'21	65'83	47'69
		Outwa	.....	.....	.....	.....	.....	Nil	Nil	0'21	0'10	64'37	47'30
		Raneeungunge	.....	.....	.....	.....	.....	Nil	Nil	0'18	0'12	60'72	48'79
		Mankur	.....	.....	.....	.....	.....	Nil	Nil	?	?	43'21	?
		Bankoora	Bankoora	.....	.....	.....	.....	Nil	Nil	Nil	0'23	57'76	51'14
		Bishenpore	.....	.....	.....	.....	.....	Nil	Nil	0'24	0'35	51'93	51'93
SOUTH-WEST BENGAL	Bankura	Malpara	.....	.....	.....	.....	.....	Nil	Nil	0'21	0'28	48'31	46'77
		Khatra	.....	.....	.....	.....	.....	Nil	Nil	0'42	0'06	40'66	56'77
		Indas	.....	.....	.....	.....	.....	Nil	Nil	?	59'97	?	
		Kotalpore	.....	.....	.....	.....	.....	Nil	Nil	?	66'94	?	
		Anda	.....	.....	.....	.....	.....	Nil	Nil	?	65'11	?	
		Gangajalghati	.....	.....	.....	.....	.....	Nil	Nil	?	63'75	?	
SOUTH-WEST BENGAL	Birbhum	Hutpore	.....	.....	.....	.....	.....	Nil	Nil	?	53'29	?	
		Sonamukhi	.....	.....	.....	.....	.....	Nil	Nil	?	52'74	?	
		Bh. Soory	.....	.....	.....	.....	.....	Nil	Nil	0'22	0'11	62'50	53'23
		Hetampore	.....	.....	.....	.....	.....	Nil	Nil	0'11	0'11	64'42	53'76
		Rampore Hau	.....	.....	.....	.....	.....	Nil	Nil	0'18	0'18	72'56	50'93
		Holpore	.....	.....	.....	.....	.....	Nil	Nil	0'11	?	57'63	?
SOUTH-WEST BENGAL	Nuddea	Murarias	.....	.....	.....	.....	.....	Nil	Nil	?	66'46	?	
		Ranaghat	.....	.....	.....	.....	.....	Nil	Nil	0'07	0'21	55'53	46'63
		Kishnaghur	.....	.....	.....	.....	.....	Nil	Nil	0'07	0'08	61'73	45'43
		Choosdanga	.....	.....	.....	.....	.....	Nil	Nil	0'14	0'14	47'00	50'70
		Meherpore	.....	.....	.....	.....	.....	Nil	Nil	0'13	0'13	55'86	47'13
		Kooshies	.....	.....	.....	.....	.....	Nil	Nil	0'10	0'10	52'09	53'95
SOUTH-WEST BENGAL	Khoolna	Satkira	.....	.....	.....	.....	.....	Nil	Nil	0'36	0'61	55'50	
		Bagirhat	.....	.....	.....	.....	.....	Nil	Nil	0'27	0'51	60'61	
		Khoolna	.....	.....	.....	.....	.....	Nil	Nil	0'32	0'88	54'25	
		Nakipur	.....	.....	.....	.....	.....	Nil	Nil	0'06	?	76'08	
		Rampal	.....	.....	.....	.....	.....	Nil	Nil	?	63'78	?	
		Jeswore	Narail	.....	.....	.....	.....	Nil	Nil	1'05	0'25	51'50	45'47
SOUTH-WEST BENGAL	Moorskababad	Jessore	.....	.....	.....	.....	.....	Nil	Nil	1'03	0'21	59'32	53'72
		Jhenidah	.....	.....	.....	.....	.....	Nil	Nil	0'18	0'18	54'16	52'97
		Magoorah	.....	.....	.....	.....	.....	Nil	Nil	0'15	0'14	43'44	48'75
		Bongong	.....	.....	.....	.....	.....	Nil	Nil	0'31	0'31	46'66	51'23
		Kandi	.....	.....	.....	.....	.....	Nil	Nil	0'19	0'19	49'61	
		Berhampore	.....	.....	.....	.....	.....	Nil	Nil	0'17	0'27	50'76	
SOUTH-WEST BENGAL	Chittagong	Lalbagh	.....	.....	.....	.....	.....	Nil	Nil	0'15	0'15	63'67	49'69

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL						TOTAL		Number of rainy days.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 29th December.	Sunday, 30th December.	Monday, 31st December.	Tuesday, 1st December.	Wednesday, 2nd December.	Thursday, 3rd December.	Friday, 4th December.	Rainfall of week.					
EAST BENGAL concld.		Gournaddi Bauphal	....	....	....	....	....	....	Nil Nil	Nil Nil	?	42'66	?	73'26	?
	Noakholly	Nosknolly	....	....	....	....	....	....	Nil Nil	Nil Nil	0'60	92'34	107'16		
	Fenny	....	....	....	....	....	....	....	Nil Nil	Nil Nil	1'00	103'40	105'75		
	Harishpore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'90	179'31	?		
	Ramganj	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	65'28	?		
	Furreedpore	Madaripore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'16	41'91	55'27		
		Furreedpore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'14	42'45	67'41		
		Konkundo	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	44'90	52'51		
Dacos		Munshigunge	....	....	....	....	....	....	Nil Nil	Nil Nil	0'54	57'78	69'60		
	Dacca	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'19	54'58	58'19		
	Narainganje	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'28	60'71	61'51		
	Manikganj	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'12	59'71	40'02		
	Joydebpore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	66'26	?		
Hill Tipperah		Agartala	....	....	....	....	....	....	Nil Nil	Nil Nil	0'88	61'02			
	Tipperah	Comilla	....	....	....	....	....	....	Nil Nil	Nil Nil	0'45	67'24	75'39		
	Chandpore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'40	56'78	74'68		
	Brahmanbaria	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'25	51'94	61'20		
	Ramchandra pore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	76'11	?		
	Nasirnagar	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	34'81	?		
	Daudkandi	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	30'44	?		
	Kasba	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	51'71	?		
	Laksham	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	68'55	?		
Mymensingh		Kishnorgunge	....	....	....	....	....	....	Nil Nil	Nil Nil	0'15	68'87	69'32		
	Atiq (Tangail)	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'09	56'6	54'95		
	Mymensingh	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'12	78'05	73'32		
	Jamalpore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'20	79'10	64'69		
	Naurokma	....	....	....	....	....	....	....	Nil Nil	Nil Nil	0'17	96'54	80'53		
	Subornakhalli	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	58'25	?		
	Durgapore	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	118'67	?		
	Sherepore Town	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	67'41	?		
	Dewanganj	....	....	....	....	....	....	....	Nil Nil	Nil Nil	?	72'99	?		
NORTH BENGAL	Purnea	Purna Seraikgunge	....	....	....	....	....	....	Nil Nil	Nil Nil	Nil Nil	0'11	46'98	53'47	
	Rogra	Sherepore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'18	77'86	57'95		
		Nowkhilla	....	....	....	....	....	....	Nil Nil	Nil Nil	0'12	66'70	55'88		
		Bogra	....	....	....	....	....	....	Nil Nil	Nil Nil	0'07	79'92	60'51		
		Panabibhi	....	....	....	....	....	....	Nil Nil	Nil Nil	0'20	91'46	55'48		
	Raisibalya	Beaulah	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	72'29	52'50		
		Nattore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	88'84	54'29		
		Naogaon	....	....	....	....	....	....	Nil Nil	Nil Nil	0'17	66'15	52'16		
		Lalpore	....	....	....	....	....	....	Nil Nil	Nil Nil	?	52'38	?		
		Manda	....	....	....	....	....	....	Nil Nil	Nil Nil	?	48'04	?		
	Maldah	Maldan	....	....	....	....	....	....	Nil Nil	Nil Nil	0'14	64'65	51'13		
		Chanchal	....	....	....	....	....	....	Nil Nil	Nil Nil	0'04	59'62	56'17		
		Gajol	....	....	....	....	....	....	Nil Nil	Nil Nil	?	84'40	?		
		Sibganj	....	....	....	....	....	....	Nil Nil	Nil Nil	?	62'66	?		
	Patna	Mohadebpore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'17	67'94	56'12		
		Churaman	....	....	....	....	....	....	Nil Nil	Nil Nil	0'16	80'28	52'23		
		Raijunge	....	....	....	....	....	....	Nil Nil	Nil Nil	0'17	92'75	57'75		
		Dinajpore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'08	86'80	63'61		
		Balorghat	....	....	....	....	....	....	Nil Nil	Nil Nil	0'24	81'01	53'26		
		Thakurgoan	....	....	....	....	....	....	Nil Nil	Nil Nil	?	107'04	?		
	Rungpore	Bukwansinghat (Gyabanda)	....	....	....	....	....	....	Nil Nil	Nil Nil	0'14	123'00	62'23		
		Kungpore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'08	96'56	74'14		
		Surgram	....	....	....	....	....	....	Nil Nil	Nil Nil	0'17	95'59	72'83		
		Bagnogra (Nilphamuri)	....	....	....	....	....	....	Nil Nil	Nil Nil	0'21	111'28	84'08		
		Uttipore	....	....	....	....	....	....	Nil Nil	Nil Nil	?	97'52	?		
	Jalpigoree	Jalpizore	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	156'28	116'83		
		Ajapore Dooar	....	....	....	....	....	....	Nil Nil	Nil Nil	?	187'47	?		
		Pailacotta	....	....	....	....	....	....	Nil Nil	Nil Nil	?	140'30	?		
		Debiganj	....	....	....	....	....	....	Nil Nil	Nil Nil	?	115'70	?		
	Cooch Behar	Bhagatpore (Naarakata)	....	....	....	....	....	....	Nil Nil	Nil Nil	?	182'64	?		
		Dimna	....	....	....	....	....	....	Nil Nil	Nil Nil	0'22	128'95	94'09		
		Coon Behar	....	....	....	....	....	....	Nil Nil	Nil Nil	0'11	169'37	118'10		
		Mickligunge	....	....	....	....	....	....	Nil Nil	Nil Nil	0'19	116'36	105'11		
		Matlabnaga	....	....	....	....	....	....	Nil Nil	Nil Nil	0'13	171'61	112'66		
	Darjeeling Hill	Busa	....	....	....	....	....	....	Nil Nil	Nil Nil	0'47	0'36	211'33	191'58	
		Sillinguri	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	178'39	102'41		
		Kaysein	....	....	....	....	....	....	Nil Nil	Nil Nil	0'26	150'24	107'54		
		Kalimpung	....	....	....	....	....	....	Nil Nil	Nil Nil	0'30	123'00	77'59		
		Kurseong	....	....	....	....	....	....	Nil Nil	Nil Nil	0'31	193'09	?		
	Purnea	Kissengunge	....	....	....	....	....	....	Nil Nil	Nil Nil	0'10	105'38	69'78		
		Arrateah	....	....	....	....	....	....	Nil Nil	Nil Nil	0'08	83'78	63'24		
		Purneah	....	....	....	....	....	....	Nil Nil	Nil Nil	0'15	89'36	61'14		
		Gondwara	....	....	....	....	....	....	Nil Nil	Nil Nil	?	100'45	?		
		Balarampore	....	....	....	....	....	....	Nil Nil	Nil Nil	?	63'08	?		
		Mastori	....	....	....	....	....	....	Nil Nil	Nil Nil	?	118'65	?		
		Kaitaganj	....	....	....	....	....	....	Nil Nil	Nil Nil	0'05	61'61	49'07		
	North Bhagalpur	Maddisapore	....	....	....	....	....	....	Nil Nil						

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890—concl'd.

Meteorological Division.	District.	Station.	Saturday, 29th December.	Sunday, 30th December.	Monday, 31st December.	Tuesday, 2nd December.	Wednesday, 3rd December.	Thursday, 4th December.	Friday, 5th December.	TOTAL		Total rainfall since 1st of month.	Average rainfall from 1st of month.	Total rainfall since 1st May 1890.	Average rainfall from 1st May to date.
										Number of rainy days.	Rainfall of week.				
NORTH BHAR	Chunarun...	Motihari ...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	72'06	44'14	
		Bettiah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	64'89	45'04	
		Bogra ...	...	...	...	...	...	0'04	1	0'04	0'04	?	?	?	
SARUN	Sarun ...	Burhurwa ...	...	...	...	...	...	...	Nil	Nil	Nil	?	53'36	?	
		Gopalgunge ...	...	...	...	...	...	...	Nil	Nil	Nil	0'17	52'67	42'62	
		Sewan ...	...	...	...	...	...	...	Nil	Nil	Nil	0'15	59'84	48'25	
SOUTH BHAR	Shahabad	Chuprah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	48'27	40'12	
		Buxar ...	...	...	...	...	...	...	Nil	Nil	Nil	0'19	52'47	41'77	
		Dehra ...	...	...	...	...	...	...	Nil	Nil	Nil	0'57	43'18	39'87	
GYA	Gya ...	Bhabooah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	41'11	40'65	
		Sasseran ...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	44'27	40'19	
		Arrah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'20	66'96	39'68	
PATNA	Mohantah ...	Mohantah ...	...	...	...	...	...	...	Nil	Nil	Nil	?	36'07	?	
		Aurungabad ...	...	...	...	...	...	...	Nil	Nil	Nil	0'32	59'49	42'23	
		Gya ...	...	...	...	...	...	...	Nil	Nil	Nil	0'22	60'12	42'05	
MONGHYR	Nowadah ...	Nowadah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'18	54'84	39'35	
		Jehanabad ...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	53'35	40'39	
		Arwai ...	...	...	...	...	...	...	Nil	Nil	Nil	?	55'43	?	
SOUTH BHAGUL-	Bhagul-pore ...	Baudnagar ...	...	...	...	...	...	...	Nil	Nil	Nil	?	29'85	?	
		Sherghatis ...	...	...	...	...	...	...	Nil	Nil	Nil	?	36'81	?	
		Rajauli ...	...	...	...	...	...	...	Nil	Nil	Nil	?	45'60	?	
SENTHAL	PakriBaraican ...	PakriBaraican ...	...	...	...	...	...	...	Nil	Nil	Nil	?	54'24	?	
		Patna ...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	50'02	41'38	
		Dinapore ...	...	...	...	...	...	...	Nil	Nil	Nil	0'14	52'13	40'94	
BHAGUL-	Rehar ...	Rehar ...	...	...	...	...	...	...	Nil	Nil	Nil	0'11	46'94	41'29	
		Barrh ...	...	...	...	...	...	...	Nil	Nil	Nil	0'12	43'25	39'32	
		Bickram ...	...	...	...	...	...	...	Nil	Nil	Nil	?	58'35	?	
HUTTA NAO-	Hitia ...	Hitia ...	...	...	...	...	...	...	Nil	Nil	Nil	50'24	?	?	
		Begonserai ...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	44'29	39'63	
		Monzhyr ...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	54'84	45'99	
PORE	Jamui ...	Jamui ...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	60'23	42'91	
		Gogri ...	...	...	...	...	...	...	Nil	Nil	Nil	?	76'44	?	
		Sheikpura ...	...	...	...	...	...	...	Nil	Nil	Nil	?	47'76	?	
SENTHAL	Rajmehal ...	Bhagulpore ...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	59'77	41'73	
		Banika ...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	42'11	43'25	
		Kelang ...	...	...	...	...	...	...	Nil	Nil	Nil	?	62'96	?	
PAR-	Nausat ...	Bongaon ...	...	...	...	...	...	...	Nil	Nil	Nil	?	?	?	
		Rajmehal ...	...	...	...	...	...	...	Nil	Nil	Nil	0'06	56'86	51'86	
		Godua ...	...	...	...	...	...	...	Nil	Nil	Nil	0'10	50'75	43'78	
PUNJAB	Pakour ...	Pakour ...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	74'16	65'00	
		Nya Doonka ...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	74'36	54'65	
		Deokbur ...	...	...	...	...	...	...	Nil	Nil	Nil	0'08	49'51	49'59	
Hazaribagh	Jamura ...	Jamesra ...	...	...	...	...	...	...	Nil	Nil	Nil	0'17	76'59	47'84	
		Mohagama ...	...	...	...	...	...	...	Nil	Nil	Nil	?	48'81	?	
		Nausat ...	...	...	...	...	...	...	Nil	Nil	Nil	?	32'28	?	
Hazaribagh	Pachumba (Giridi) ...	Hazaribagh ...	...	...	...	...	...	...	Nil	Nil	Nil	0'02	0'15	55'37	46'93
		Somtagurah ...	...	...	...	...	...	...	Nil	Nil	Nil	0'27	50'02	49'39	
		Manudi Hills ...	...	...	...	...	...	...	Nil	Nil	Nil	0'31	38'94	45'68	
LOHARDUGGA	Jhoomra Hills ...	Jhoomra Hills ...	...	...	...	...	...	...	Nil	Nil	Nil	0'30	43'02	48'44	
		Barhi ...	...	...	...	...	...	...	Nil	Nil	Nil	0'31	56'80	59'91	
		Ohatra ...	...	...	...	...	...	...	Nil	Nil	Nil	0'13	50'37	?	
SINGHBOOM	Karaydaha ...	Karaydaha ...	...	...	...	...	...	...	Nil	Nil	Nil	?	47'08	?	
		Ramghar ...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	57'41	?	
		Lohardugga ...	...	...	...	...	...	...	Nil	Nil	Nil	?	50'24	?	
MANBHOOM	Ranchi ...	Ranchi ...	...	...	...	...	...	...	Nil	Nil	Nil	0'52	53'19	49'89	
		Palsow ...	...	...	...	...	...	...	Nil	Nil	Nil	0'20	43'27	51'45	
		Sils ...	...	...	...	...	...	...	Nil	Nil	Nil	0'18	44'27	42'47	
CHAS	Balumat ...	Balumat ...	...	...	...	...	...	...	Nil	Nil	Nil	?	43'83	?	
		Hosseinaabad ...	...	...	...	...	...	...	Nil	Nil	Nil	?	43'62	?	
		Garwah ...	...	...	...	...	...	...	Nil	Nil	Nil	?	41'75	?	
CHAS	Chyebassa ...	Chyebassa ...	...	...	...	...	...	...	Nil	Nil	Nil	0'59	0'38	34'43	31'00
		Chakradhar-pore ...	...	...	...	...	...	...	Nil	Nil	Nil	0'05	?	24'88	?
		Ghatzilla ...	...	...	...	...	...	...	Nil	Nil	Nil	0'42	?	51'88	?
CHAS	Raharagura ...	Raharagura ...	...	...	...	...	...	...	Nil	Nil	Nil	1'12	?	52'06	?
		Purulia ...	...	...	...	...	...	...	Nil	Nil	Nil	?	0'23	44'22	48'53
		Gobindpore ...	...	...	...	...	...	...	Nil	Nil	Nil	0'16	39'13	44'47	
CHAS	Raghunath-pore ...	Raghunath-pore ...	...	...	...	...	...	...	Nil	Nil	Nil	?	62'26	?	
		Burrabhoor ...	...	...	...	...	...	...	Nil	Nil	Nil	0'07	44'22	?	
		Jhalda ...	...	...	...	...	...	...	Nil	Nil	Nil	?	64'71	?	
CHAS		Chas ...	...	...	...	...	...	...	Nil	Nil	Nil	?	50'18	?	

Explanation.—indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 30th December 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 26TH
OF DECEMBER 1890.**

It is desirable to notice that this is the last weekly meteorological report which will deal with the weeks ending on Fridays, and that in future, commencing with the week ending on January 3rd, the meteorological week will be considered to end on Saturdays at 8 A.M. The system with the week ending on Fridays has been in force for nearly eight years, since the first week of April 1883, but at the suggestion of the Government of India it is now to be changed, as above stated, to bring the Bengal weekly report into uniformity with the weekly rainfall reports to be published in all other provinces of India.

The week under review has been one in which the changes have been somewhat considerable, though fine weather has prevailed throughout. On the first day of the week pressure was in slight excess of the normal, while temperature was exceedingly high in the western districts, where at some stations the mean temperatures were 5° to 7° above the normal, though on the other hand in the east of the province temperature was in defect by one to two degrees. A steady northerly wind current of fairly normal direction was reported at all stations, weather was fine, and there was no rain. On the 21st there had been a rather considerable fall of pressure which continued on the 22nd, but the fall was succeeded by a sharp rise on the 23rd and 24th, the increase on the latter date at many stations equalling about one-eighth of an inch. Pressure again fell by about a twentieth to a tenth of an inch on the 25th, and by an almost similar amount on the 26th, and on this day pressure was in rather considerable defect of the normal over the north of the province, though it was more normal elsewhere. It will thus be seen the pressure changes during the week have been much larger than is usual during the north-east monsoon season. Temperature has also changed considerably. From the 20th to the 21st there had usually been a fall of rather less than a degree; this was succeeded on the 22nd by an increase of from two to three degrees, and on the 23rd by a fall varying at some stations up to more than five degrees, and on the 24th by a further fall which averaged about 3°, but which at many stations exceeded 5°. On the 26th a rise of temperature set in over the northern districts, though the fall continued at the southern stations, and on the 26th the rise continued at the majority of stations, the increase equalling 5° at such stations as Hazaribagh and Gya. It will be seen that in temperature also the changes during the week have been unusually large and variable, and at the close of the week again temperature was in excess of the normal by amounts generally ranging up to about 2°. Wind directions during the week have, however, been fairly steady and tolerably normal in character, and the sky has been usually cloudless, and at no station has there been any rainfall at all.

Pressure.—The mean pressure for the week has varied from the normal by small amounts only, and at most stations it has been above the normal by one or two-hundredths of an inch.

Temperature.—The mean temperature for the week has been about five and-a-half degrees in excess of the normal in Orissa, three degrees in excess in Chutia Nagpur, two degrees in South-West Bengal and South Behar, and nearly one degree above it elsewhere. For the whole province the average excess has been rather more than two degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with the normal values for the same period. The variations of the minimum or night temperatures at these stations have been larger than those of the maximum or day temperatures, and the mean excess of the minimum temperatures has been about two and-a-half degrees as against an excess of less than one degree in the day temperature:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 26th of December 1890.

	Normal mean maximum temperature for the week ending 26th December.	Actual mean maximum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 26th December.	Actual mean minimum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 26th December.	Actual mean daily temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.
Cuttack	81.0	85.0	+4.0	56.7	64.8	+7.9	68.9	74.9	+6.0
Calcutta	74.6	76.8	+2.2	53.6	55.6	+2.0	64.1	66.2	+2.1
Dacca	77.0	76.7	-0.3	56.2	53.1	-3.1	66.1	65.9	-0.2
Burdwan	76.2	77.6	+1.4	53.2	55.4	+2.2	64.7	66.5	+1.8
Patna	72.2	73.9	+0.8	48.8	51.4	+2.6	60.5	62.2	+1.7
Gya	74.2	74.5	+0.3	49.5	53.7	+4.2	61.9	64.1	+2.2
Purneah	74.2	75.4	+1.2	47.4	48.2	+0.8	60.8	60.8	0
Hazaribagh	70.3	71.4	+1.1	48.4	52.0	+3.6	59.4	61.7	+2.3
Darjeeling	47.2	48.1	+1.1	33.6	35.1	-0.5	41.4	40.6	-0.8

Rainfall—Has been entirely absent from the province throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th of December 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.										RAINFALL.									
	Highest observed during week.		Lowest observed during week.		Averages for week.				Average mean of week above or below normal mean of week.		Of week.		Rainy days.		Since 1st of month.		Since 15th May 1890.			
	Highest	Lowest	of highest of each day.	of lowest of each day.	of mean for each day.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	Average.	Normal average.	Average.	Normal average.	
Orissa	87·4	55·5	81·8	63·4	72·6	+5·5	Nil	0·12	-0·12	0·0	0·2	-0·2	0·44	0·81	63·71	53·14				
South-West Bengal ...	84·3	45·5	77·6	55·3	66·3	+1·8	Nil	0·05	-0·05	0·0	0·1	-0·1	0·00	0·23	56·92	51·51				
East Bengal	78·7	49·6	76·1	54·3	65·2	+0·5	Nil	0·03	-0·03	0·0	0·1	-0·1	0·07	0·32	71·49	74·01				
North Bengal	76·5	49·0	74·3	51·4	62·9	+0·7	Nil	Nil	Nil	0·0	0·0	0	Nil	0·13	95·00	63·97				
North Behar ...	75·9	43·5	73·3	49·6	61·5	+0·7	Nil	Nil	Nil	0·0	0·0	0	Nil	0·10	64·38	43·08				
South Behar	70·3	45·9	74·3	51·7	63·0	+1·9	Nil	0·02	-0·02	0·0	0·1	-0·1	0·02	0·15	54·68	43·34				
Chutia Nagpur	78·1*	44·9*	72·9*	51·4*	62·2*	+3·0*	Nil	0·09	-0·09	0·0	0·2	-0·2	0·09	0·27	46·00	48·56				

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 30th December 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th December 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.				HYGROMETRY.				Humidity at 10 A.M.	Rainfall past 24 hours.
			Inches.	*	*	*	*	*	*	*		
December ...	21st ...	30·088	67·9	78·9	22·0	56·9	69·3	60·9	424	54·4	59	Nil
" ...	22nd	.062	71·3	81·7	20·8	60·9	74·6	66·4	540	61·1	62	...
" ...	23rd	.148	67·0	76·1	18·2	57·9	71·1	59·7	362	50·0	47	
" ...	24th	.224	64·9	74·1	18·4	55·7	67·6	58·7	377	51·1	56	
" ...	25th	.177	64·9	75·7	21·6	54·1	67·4	59·7	412	53·6	61	
" ...	26th	.091	66·1	78·4	24·7	53·7	67·9	60·9	443	55·6	65	
" ...	27th	.090	69·0	77·9	17·8	60·1	71·6	62·7	452	56·1	58	

The mean 10 a.m. pressure of the seven days 30·126

The mean temperature of the seven days 67·3

The extreme variation of temperature 28·0

The maximum temperature 81·7

The mean 10 a.m. relative humidity of the seven days 58

The total fall of rain from 21st to 27th December 1890 Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

A. PEDLER,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 29th December 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from
21st to 27th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
Dec.	21st	130.8	8.5	Inches. 30.012	66.7	77.7	21.6	56.1	61.6	0.482	57.9	76	NNW and calm	..	13	Nil Chiefly clear, Δ , \equiv .
"	22nd	136.5	9.0	29.983	69.2	80.8	21.7	59.1	64.8	.561	62.2	80	NNW and calm	..	28	.. Chiefly clear, Δ , \equiv .
"	23rd	129.9	9.3	30.065	66.4	75.5	18.3	57.2	59.6	.421	54.2	67	NNW and calm	..	52	.. Clear,
"	24th	128.5	9.0	.133	63.8	73.7	19.3	54.4	56.7	.368	50.5	64	N, NNW and calm	..	51	.. Chiefly clear, Δ .
"	25th	129.6	9.0	.083	63.5	75.2	20.6	54.6	57.0	.382	51.5	67	NNW and calm	..	85	.. Chiefly clear, Δ .
"	26th	129.0	9.0	.003	63.9	77.4	25.6	51.8	58.4	.420	54.1	73	NNW and calm	..	26	.. Chiefly clear Δ , \equiv .
"	27th	130.0	9.2	.017	66.7	77.9	18.2	59.7	58.6	.387	51.8	60	NNW, WNW and calm.	..	92	.. Clear, Δ .

The mean pressure of the seven days	... .. .. .. .. .. ..	Inches.	30.042
The average pressure of the corresponding period for 24 years, S.-G.'s Office	... .. .. .. .. .. ..	Inches.	30.039
The total number of hours of bright sunshine	... .. .. .. .. .. ..	Hours.	63.0
The maximum possible number of hours of sunshine	... .. .. .. .. .. ..	Hours.	74.9
The mean temperature of the seven days	... .. .. .. .. .. ..	°F.	65.7
The average temperature of the corresponding period for 24 years, S.-G.'s Office	... .. .. .. .. .. ..	°F.	67.3
The extreme variation of temperature	... .. .. .. .. .. ..	°F.	29.0
The maximum temperature	... .. .. .. .. .. ..	°F.	80.8
The highest velocity of the wind in one hour	... .. .. .. .. .. ..	Miles.	12
The highest pressure of wind on one square foot	... .. .. .. .. .. ..	lbs.	?
The mean relative humidity	... .. .. .. .. .. ..	%	70
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	... .. .. .. .. .. ..	%	71
The total fall of rain from 21st to 27th December 1890	.. .. .. .. .. .. ..	Inches.	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office	.. .. .. .. .. .. ..	Inches.	0.01
The total fall from 1st January to 27th December 1890	.. .. .. .. .. .. ..	Inches.	61.28
The average fall of the corresponding period for 24 years, S.-G.'s Office	.. .. .. .. .. .. ..	Inches.	65.24

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

Δ , dew; \equiv , fog.

A. PEDLER,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 29th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th December 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 13th December 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 28·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·7 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26·4	26·6	26·3	26·4	26·9	26·5	28·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—							
	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.		22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.				
Burdwan	39·7	33·6	44·2	13·7	Narainganj	...	...	...	37·3	91·1	74·5	78·7
Midnapore	23·2	26·3	29·4	32·5	Chittawong	...	...	...	9·4	4·7	18·8	21·1
Hughli and Chinsurah	44·3	34·6	29·5	39·4	Comilla	...	...	...	27·0	42·4	50·1	34·7
Serampore	43·2	31·4	25·5	41·2	Patna City	...	...	...	13·3	12·3	15·3	14·6
Uttarpurā	56·6	56·6	37·7	47·2	Gya	...	...	...	34·2	21·9	27·3	36·9
Howrah	36·1	31·5	30·9	36·6	Arrah	...	...	...	33·5	10·8	26·9	13·2
Bali	31·6	14·0	35·1	46·6	Mozufferpore	...	...	...	16·9	2·43	31·6	20·7
Krishnagar	11·4	9·5	13·2	15·1	Durohangā	...	...	...	40·1	46·4	44·1	25·2
Ranaghat	12·0	6·0	6·0	17·9	Chupra	...	...	...	2·1	21·1	35·2	29·3
Santipora	24·5	22·8	17·5	22·8	Biagulpore	...	...	...	24·4	40·7	31·7	39·8
Jessore	6·1	6·1	...	...	Monghyr	...	...	...	38·9	37·1	41·6	37·1
Rampore Beaufieah	52·5	49·9	44·7	28·9	Purneah	...	...	...	10·4	17·3	17·3	20·8
Darjiling	20·6	44·5	20·6	29·6	Poorti	...	...	...	14·7	12·6	23·6	18·9
Dacca	31·1	31·1	42·8	35·0	Total	...	27·6	26·5	30·6	28·2		

It will be seen that last week the highest birth-rate was returned from Narainganj (58·7) and the lowest from Arrah (13·2). No births were registered during the week in Jessore town.

DEATHS

The deaths registered during the week under review correspond to an annual rate of 31.5 per 1,000 of the population. The rate of the week is 2 higher than the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1887 and 1888, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	34·7	38·8	26·5	24·8	31·6	31·3	31·5

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

It will be seen that last week the highest mortality occurred in the town of Narainganj (128·3) and the lowest in Santipore (7·).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns:—

<i>Cholera.</i>	<i>Small-pox.</i>	<i>Fever.</i>	<i>Bowel-complaints.</i>	<i>Other causes.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Narainganj 70·4	Midnapore 10·8	Rampore Beauleah 39·4	Serampore 21·6	Narainganj ... 49·2
Uttarpara 28·3	Gya ...	34·8	Howrah ... 10·3	Bali ... 21·0
Ranaghat 17·9	Bali ...	31·6	Serampore ...	19·9
Howrah ... 17·2	Burdwan ...	27·5	Midnapore ...	17·9
Bali ... 14·0	Jessore ...	24·5	Dacea ...	15·0
Dacca ... 9·7	Serampore ...	23·5	Monghyr ...	11·8
Serampore 7·9	Comillah ...	23·4	Hughli and Chinsurah 11·5	
Krishnagar 7·5	Poori ...	23·1		
Hughli and Chinsurah 6·6				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 4·7 from cholera, against 3·9 per 1,000 in the preceding week; 6 from small-pox, against 5; 13·4 from fever, against 13·7; 3·9 from bowel-complaints, against 3·3; 6 from injury, against 4; and 8·3 from other causes, against 9·7 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>	<i>According to Class.</i>	<i>According to Age.</i>
Ratio per mille.	Ratio per mille.	Ratio per mille.
Males 33·7	Christians ... 22·4	Under 1 year ... 215·1
Females 29·1	Hindus ... 32·5	1 and under 5 years ... 34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population... 115	Mahomedans ... 29·8	5 " 10 " ... 18·8
		10 " 15 " ... 13·5
		15 " 20 " ... 23·8
		20 " 30 " ... 20·9
		30 " 40 " ... 19·9
		40 " 50 " ... 23·3
		50 " 60 " ... 32·9
		60 years and upwards ... 93·3

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.,*

The 29th December 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 13th December 1890.

1	2	3	4	5	6	7	8	9	10	11	12																					
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																								
		NUMBERS OF—		RATIO PER 1,000 OF POPULATION PER ANNUM.			Diseases.																									
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Ratio of male deaths to every 100 female deaths.																
Burdwan	Burdwan	18,063	16,617	34,680	5	4	9	7'6	6'1	13'7	125	9	..	18	5	29	3'0	..	27'5	7'6	..	6'1	44'2	27'5	16	13	46'1	42'2	109			
Midnapore	Midnapore	16,927	16,833	33,560	12	9	21	18'6	13'9	32'5	133	1	7	12	8	34	1'5	10'8	18'6	4'6	..	17'0	52'7	29'4	17	17	52'2	53'1	98			
Hughli	Hughli and Chinsurah.	15,858	15,829	31,687	11	13	24	18'1	21'3	39'4	84	4	..	6	5	..	7	22	6'6	..	9'8	8'2	..	11'5	36'1	29'5	14	8	45'9	26'3	174	
Serampore	Serampore	13,359	12,937	26,496	15	6	21	29'4	11'8	41'2	250	4	..	12	11	1	10	38	7'9	..	23'5	21'6	2'0	19'6	74'6	68'7	22	16	84'4	64'3	131	
	Uttarpara	3,646	2,464	5,510	4	1	5	37'7	9'4	47'2	400	3	..	1	1	..	..	5	28'3	..	9'4	9'4	..	..	47'2	66'1	3	2	51'2	42'2	121
Howrah	Howrah	53,185	37,660	90,815	28	36	64	16'0	20'6	36'6	77	30	..	15	18	1	10	74	17'2	..	8'6	19'3	'6	5'7	42'4	44'7	47	27	46'0	37'3	123	
	Bali	7,836	6,979	14,815	7	6	13	24'6	21'0	45'6	116	4	..	9	1	..	6	20	14'0	..	31'6	3'5	..	31'0	70'2	21'1	15	5	99'5	37'3	266	
	Krishnagar	13,263	14,214	27,477	6	2	8	11'3	3'8	15'1	300	4	..	5	..	1	3	13	7'5	..	9'5	..	1'9	5'7	24'6	15'9	7	6	27'4	22'0	124	
Nuddea	Ranaghat	4,025	4,655	8,683	..	3	3	..	17'9	17'9	No male birth.	333	3	..	3	2	..	1	9	17'9	..	17'9	12'0	..	6'0	53'9	12'0	6	3	77'6	33'5	231
	Santipore	13,708	15,879	29,587	10	3	13	17'5	5'3	22'8	..	..	..	4	..	..	..	4	..	..	7'0	..	..	..	7'0	19'3	1	3	3'8	9'8	38
Jessore	Jessore	4,830	3,665	8,495	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24'5	..	..	..	6'1	30'6	18'4	2	3	21'5	42'6	50
Rajshahiya	Rampore Bealeak	10,766	9,025	19,791	9	2	11	23'6	5'3	28'9	450	1	..	15	1	..	1	18	2'6	..	39'4	2'6	..	2'6	47'3	31'5	7	11	33'8	63'4	53	
Darjiling	Darjiling	4,579	2,439	7,018	3	1	4	22'2	7'4	29'6	300	..	..	1	..	..	..	1	..	..	7'4	..	..	..	7'4	51'9	1	..	11'4	..	No female death, 116
Dacca	Dacca	42,782	37,379	80,161	31	23	54	20'1	14'9	35'0	134	15	..	14	2	1	23	56	9'7	..	9'1	1'3	'8	15'6	36'3	31'4	32	24	38'9	33'4	118	
	Narsinganj	7,605	4,956	12,561	8	11	19	33'1	45'5	78'7	72	17	..	1	1	..	12	31	70'4	..	4'1	4'1	..	49'7	128'3	120'1	20	11	138'8	115'4	118	
Chittagong	Chittagong	13,540	8,790	22,150	2	7	9	4'7	16'4	24'1	23	..	2	2	4	1	3	12	..	4'7	4'7	9'4	2'3	7'0	28'2	28'2	8	4	31'2	23'7	131	
Tipperah	Comillah	8,183	5,393	13,506	3	6	9	11'6	23'1	34'7	50	1	..	6	..	..	4	11	3'9	..	23'1	..	..	15'4	42'4	30'8	4	7	25'5	68'0	37
Patna	Patna City	78,762	81,475	160,237	22	23	45	7'1	7'5	14'6	95	4	2	20	5	1	19	51	1'3	'6	6'5	1'6	'3	16'6	11'0	29	22	19'1	14'0	136		
Gya	Gya	38,290	37,832	76,121	23	31	54	15'7	21'2	36'9	74	1	..	51	1	2	14	69	7	..	34'8	7	1'4	9'5	47'1	63'8	31	28	42'1	52'2	80	
Shahabad	Arrah	20,960	22,505	43,465	9	2	11	10'8	2'4	13'2	450	..	..	5	1	..	..	6	..	..	6'0	1'2	..	..	7'2	23'9	5	1	12'4	2'3	539
Mozafferpore	Mozafferpore	23,084	19,658	42,742	5	12	17	6'1	14'6	26'7	41	..	..	4	6	..	3	13	..	..	4'9	7'3	..	3'6	15'8	23'1	8	5	18'0	13'2	136
Durbanga	Durbanga	33,774	32,322	66,096	15	17	32	11'8	13'4	25'2	88	1	..	19	3	..	7	30	8	..	14'9	2'4	..	5'5	23'6	26'0	16	14	24'6	22'5	109	
Sarun	Chupra	25,116	26,554	51,670	14	15	29	14'1	15'1	29'2	93	..	..	8	12	9	7	19	..	..	8'0	2'0	2'0	7'0	19'1	27'2	13	6	26'9	11'7	229
Bhagulpore	Bhagulpore	29,640	27,513	57,453	25	19	44	22'6	17'2	39'8	131	..	..	17	..	..	4	21	..	..	15'4	..	..	3'6	19'0	23'5	7	14	12'3	26'2	47
Monghyr	Monghyr	28,154	29,366	57,520	24	17	41	21'7	15'4	37'1	141	..	..	8	6	1	13	28	..	..	7'2	5'4	'9	11'8	25'3	28'0	15	13	27'7	23'0	120
Purneah	Purneah	8,483	6,553	15,016	4	2	6	13'9	6'9	20'8	200	2	1	..	1	4	20	2'1	2'1	23'1	4'2	2'1	8'4	42'0	73'4	9	11	35'3	49'6	77
Poori	Poori	13,247	11,537	24,784	5	4	9	10'5	8'4	18'9	125	1	1	11	2	1	4	20	2'1	2'1	23'1	4'2	2'1	8'4	42'0	73'4	9	11	35'3	49'6	71	
Total		550,966	510,588	1,061,574	300	275	575	14'7	13'8	28'2	109	96	12	273	81	12	169	648	4'7	'6	13'4	8'9	'6	8'8	31'5	31'5	357	286	83'7	29'1	115	

Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 31, 1890.

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.														
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	Land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	Land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	22	7	...	...	...	45'3	35'5	...	...	6	1	2	...	1	5	2	6	...	6	472'7	23'0	44'6	...	16'6	32'8	15'1	70'6	...	219'5
Midnapore	Midnapore	30	4	...	...	...	60'2	28'8	...	...	8	5	5	...	2	3	2	2	...	5	559'9	110'5	69'4	34'2	31'9	14'2	9'4	27'9	50'4	142'1
Hughli	Hughli and Chinsurah	18	...	...	...	...	37'0	33'7	...	...	6	1	...	...	3	3	5	2	...	2	388'5	23'4	...	...	62'3	25'1	45'5	24'9	...	50'2
Serampore	Serampore	1	34	3	...	...	163'0	70'1	166'3	...	7	7	4	...	2	6	2	2	4	4	512'7	201'7	82'7	...	47'6	57'9	20'9	30'8	108'6	149'5
	Uttarpara	5	...	...	...	...	48'8	...	...	...	...	...	1	1	...	1	1	...	1	1	...	...	...	...	...	...	...	...	...
Howrah	Howrah	2	47	25	...	...	54'9	35'9	63'4	...	4	5	4	6	4	11	15	7	7	11	100'8	45'9	33'1	47'4	28'4	25'2	40'5	31'0	66'0	152'5
	Bali	17	3	...	...	...	65'9	119'0	...	...	3	2	...	1	1	...	3	1	3	7	430'9	104'1	...	...	39'0	...	55'9	26'9	148'0	497'3
Nuddea	Krishnagar	9	4	...	...	...	25'1	25'1	...	...	3	...	1	1	1	3	2	...	1	1	314'5	...	15'1	18'5	25'3	32'4	24'3	...	24'7	30'1
	Ranaghat	8	1	56'8	38'1	1	1	3	1	...	2	1	...	65'4	46'6	103'5	41'7	...	143'6	91'4
Jessore	Jessore	1	3	...	...	...	25'5	17'4	...	...	...	...	1	...	...	...	...	...	1	2	61'5	...	...	...	...	...	...	22'6	53'0	
Rajshahiye	Rampore Beausoleil	7	11	...	...	...	36'7	58'3	...	...	...	...	3	3	2	3	1	1	2	4	536'1	...	...	...	71'0	...	34'0	...	92'4	...
Darjiling	Darjiling	1	...	...	...	...	11'3	...	...	...	...	...	...	...	...	...	1	...	...	...	75'0	86'6	62'6	37'5	14'4	42'4	...	216'0	...	
Dacca	Dacca	35	21	...	...	...	43'2	27'8	...	...	6	7	4	3	3	9	9	4	5	4	219'2	49'4	21'0	19'6	21'4	30'5	40'1	24'8	54'9	37'3
	Narsinganj	12	19	...	...	...	98'7	160'4	...	...	7	1	2	...	8	2	2	4	...	5	1,304'7	45'6	78'7	...	393'1	39'0	48'6	149'3	...	398'8
Chittagong	Chittagong	2	10	...	...	...	17'9	34'0	...	...	2	...	3	...	2	1	...	2	3	...	184'7	...	41'6	20'2	...	22'5	46'8	...	...	130'7
Tipperah	Comilla	5	6	43'7	42'2	5	5	2	1	1	1	1	1	3	...	119'3	82'7	18'8	26'1	39'6	...	230'1
Patna	Patna City	40	11	...	...	...	17'5	14'0	...	...	5	5	2	1	1	9	4	6	4	14	60'3	17'8	6'2	8'6	4'7	16'2	8'9	16'6	14'7	52'7
Gya	Gya	63	6	...	...	...	84'6	18'4	...	...	6	5	4	2	3	12	6	6	9	16	174'3	40'9	29'7	15'5	20'8	42'4	24'5	31'9	71'2	161'6
Shahabad	Arrah	4	2	...	...	...	33'0	14'1	...	...	2	1	...	1	...	1	...	1	1	80'7	11'7	...	11'8	...	6'6	...	...	18'0	...	
Mozaffarpore	Mozaffarpore	6	7	...	...	...	10'4	29'2	...	...	1	3	...	...	2	...	1	1	5	545'3	38'6	...	...	...	12'1	...	10'4	16'0	106'8	
Durbhangal	Durbhangal	25	5	...	...	...	26'9	14'8	...	...	12	5	3	1	1	...	1	2	...	5	400'8	34'2	19'9	9'4	12'9	...	4'7	14'0	...	81'4
Sarun	Chupra	15	4	...	...	...	19'7	17'5	...	...	4	2	1	...	...	1	4	2	...	5	147'4	20'1	8'7	...	5'6	26'7	17'1	...	76'4	...
Bhagulpore	Bhagulpore	19	12	...	...	...	24'8	6'0	...	...	7	2	...	...	2	2	3	4	1	304'9	19'2	...	...	9'1	13'8	15'1	...	24'5	13'1	130'5
Monghyr	Monghyr	23	5	...	...	...	26'7	20'7	...	...	8	2	...	1	1	3	...	3	1	280'1	16'7	...	9'1	13'8	15'1	...	24'5	13'1	130'5	
Purneah	Purneah	4	...	...	...	...	22'7	...	...	...	1	...	...	...	3	...	...	...	...	183'7	...	...	...	...	47'5	...	...	...	...
Poori	Poori	20	...	...	...	...	42'4	...	...	...	2	3	1	2	1	1	1	1	1	3	343'2	86'3	23'2	55'4	28'0	9'8	12'8	15'6	69'9	144'0
TOTAL		3	474	103	...	...	22'4	32'5	29'3	...	165	61	40	25	37	85	67	56	49	118	215'1	34'1	18'8	13'6	20'8	19'2	23'3	32'9	93'3	...

OFFICE OF SANITARY COMMISSIONER FOR BENGAL.

W. H. GREGG, *Dip. Publ. Health, Camb.*

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 27th December 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 27TH DECEMBER 1890.				WEEK ENDING SATURDAY, THE 28TH DECEMBER 1890.			
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.		
						No.	Mds.	
Rice and paddy	1,598	1,24,875	1,890	1,744	1,59,595	2,298
Jute	264	1,34,325	2,629	379	4,00,650	4,166
Firewood	123	77,025	1,137	80	46,650	639
Other articles	1,194	2,54,980	4,036	1,025	2,56,170	4,042
Total	...	3,179	5,91,185	9,692	8,228	8,63,665	11,199	

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACC, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 13th December 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANTABLE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total
Total traffic for the week	150,925	57,616 0 0	5,42,514 0	1,42,050 0 0	17,280 0 0	2,36,310 0 0	25,072	36,244	6,
Or per mile of railway	198	103 0 0	711 0	186 0 0	13 0 0	290 0 0	.....	.....	...
For previous 23 weeks of half-year	3,284,364	14,69,071 0 0	1,38,70,109 0	34,99,570 0 0	4,00,180 0 0	53,68,831 0 0	511,501	771,632	1,28
Total for 24 weeks	3,435,319	15,46,681 0 0	1,45,12,513 0	36,41,620 0 0	4,17,460 0 0	56,05,161 0 0	536,573	807,876	1,34
COMPARISON.									
Total for corresponding week of previous year	140,647	68,931 0 0	7,18,800 0	1,97,102 0 0	22,768 0 0	2,88,801 0 0	22,173	39,499	6
Per mile of railway corresponding period of previous year	188	92 0 0	953 0	264 0 0	18 0 0	364 0 0	.....	.....	...
Total to corresponding date of previous year	3,478,442	15,77,435 0 0	1,52,96,744 0	38,55,280 0 0	4,39,459 0 0	68,72,174 0 0	541,492	791,582	1,33

* Audited up to week ending 25th October 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
747	Rs. 2,88,801	Rs. 387	763	Rs. 2,36,340	Rs. 310	718	Rs. 80,07,616	Rs. 301	760	Rs. *79,87,819	Rs. 284	.....	Rs. 11

* Audited up to week ending 25th October 1890.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 31, 1890.

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BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.				
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching				
							Rs. A. P.	Merchandise.	Total.		
traffic for the week ...	27,878	11,800 0 0	35,885 0	2,450 0 0	240 0 0	14,550 0 0	3,600	2,020	6,620		
mile of railway ...	223	95 0 0	285 0	20 0 0	2 0 0	117 0 0	.....	.....	.....
previous 23 weeks of half-year ...	562,253	2,02,982 0 0	9,29,466 0	76,176 0 0	5,405 0 0	*2,81,563 0 0	89,267	35,405	124,762		
Total for 24 weeks ...	590,131	2,14,872 0 0	9,65,151 0	78,026 0 0	5,645 0 0	*2,69,143 0 0	92,867	37,515	130,382		
COMPARISON.											
for corresponding week of previous year ...	26,413	10,245 0 0	25,611 0	2,265 0 0	317 0 0	12,827 0 0	3,572	2,100	5,673		
mile of railway corresponding of previous year ...	211	82 0 0	205 0	18 0 0	2 0 0	102 0 0	.....	.....	.....
corresponding date of previous year ...	668,172	2,09,730 0 0	13,20,916 0	1,21,890 0 0	5,511 0 0	*3,57,137 0 0	84,973	57,588	142,560		

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 4TH DECEMBER 1889.	RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.	
	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
12,827	102	125	125	14,630	117	125	5,38,984	116	125	*4,64,639	100

* Audited up to week ending 25th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.				
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching				
							Rs. A. P.	Merchandise.	Total.		
traffic for the week ...	17,865	8,110 0 0	32,914 0	3,300 0 0	250 0 0	11,600 0 0	2,414	1,624	3,438		
mile of railway ...	208	94 0 0	383 0	38 0 0	3 0 0	135 0 0	.....	.....	.....
previous 23 weeks of half-year ...	351,228	1,17,030 0 0	5,15,878 0	48,612 0 0	5,676 0 0	*1,71,327 0 0	55,340	17,921	73,061		
Total for 24 weeks ...	369,003	1,25,149 0 0	5,48,792 0	51,912 0 0	5,926 0 0	1,82,987 0 0	57,554	18,945	76,409		
COMPARISON.											
for corresponding week of previous year ...	17,936	5,952 0 0	52,525 0	3,290 0 0	391 0 0	12,633 0 0	2,527	2,320	4,847		
mile of railway corresponding of previous year ...	209	69 0 0	613 0	73 0 0	5 0 0	147 0 0	.....	.....	.....
corresponding date of previous year ...	376,371	1,31,113 0 0	6,08,209 0	58,927 0 0	6,175 0 0	1,85,215 0 0	59,845	25,615	85,463		

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.	RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.	
	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
86	12,633	147	86	11,600	135	86	2,59,494	81	86	*2,64,804	83	5,310

* Audited up to week ending 25th October 1890.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 31, 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	2,893	Rs. A. P. 1,350 0 0	Mds. S. 15,925 0	Rs. A. P. 800 0 0	Rs. A. P. 10 0 0	Rs. A. P. 2,140 0 0	591	335	926
Or per mile of railway ...	106	49 0 0	584 0	29 0 0	1 0 0	79 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	67,552	Rs. 4,490 0 0	2,37,818 0	12,775 0 0	413 0 0	*37,678 0 0	15,571	8,378	24,144
Total for 24 weeks ...	70,445	25,820 0 0	2,53,743 0	13,575 0 0	423 0 0	39,818 0 0	16,162	8,913	25,075
COMPARISON.									
Total for corresponding week of previous year ...	3,836	1,318 0 0	12,526 0	660 0 0	28 0 0	2,012 0 0	586	420	1,900
Per mile of railway corresponding period of previous year ...	141	48 0 0	471 0	25 0 0	1 0 0	74 0 0	.....	.....	.....
Total to corresponding date of previous year ...	75,658	27,529 0 0	2,21,013 0	14,526 0 0	1,880 0 0	45,941 0 0	13,914	8,522	22,436

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH DECEMBER 1890.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.		Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Total receipts.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
27½	2,612	74	27½	2,140	73	27½	69,520	69	27½	*65,740	65
										.....	3,780

* Audited up to week ending 25th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 13th December 1890, on 609 miles open.

	COACHING TRAFFIC.		MERCHANTISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
Total traffic for the week ...	75,350	Rs. 29,430	Mds. S. 9,28,770	Rs. 30,950	Rs. 7,370	Rs. 80,750	13,610	13,700	26,770
Or per mile of railway ...	10773	4210	47034	71147	1054	12411	.....	.....	.....
For previous 23 weeks of half-year ...	1,785,250	Rs. 6,98,648	62,05,434	8,11,140	1,58,724	16,68,512	284,984	279,242	504,226
Total for 23 weeks ...	1,860,630	7,25,078	63,95,904	8,61,080	1,68,604	17,55,262	297,994	293,002	590,006
COMPARISON.									
<i>Audited figures.</i>									
Total for corresponding week of previous year, 619 miles open ...	73,359	29,906	3,18,317	38,338	7,053	75,297	10,459	14,205	24,66
Per mile of corresponding week of previous year ...	11363	4608	49037	5907	1087	11602	.....	.....	.....
Total to corresponding date of previous year ...	1,911,237	7,20,926	61,95,907	7,56,426	1,02,834	16,30,196	271,169	302,375	574,04

* Steam-boat earnings for the week.

Rs. 6,370

Ditto ditto to date .. 1,38,647

Train mileage figures :-

a Bengal & N.W. Section, Tirhoot Section.

Rs. Rs.

* Ajodhya bridge earnings for the week .. 440

Ditto ditto to date .. 10,230

Coaching ... 1,080

Goods ... 6,130

7,630

Total ... 13,310

13,500

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

	RECEIPTS FOR WEEK ENDING 14TH DECEMBER 1890.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH DECEMBER 1890.		TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.		Total increase in 1890-91.	Total decrease in 1890-91.
	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Total receipts.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
609	Rs. 80,750	12411	649	75,297	11602	677	30,78,942	12387	649	29,65,849	12524	88,093
<i>N.B.—Earnings of B. and N.W. Section, Week ended 14-12-90.</i>												
Coaching	..	15,010		13,703			15,500		16,143			
Goods	..	19,000		13,319			19,800		25,010			
Other earnings	..	3,000		3,209			3,770		3,853			
Total	..	35,720		30,282			36,030		45,015			
<i>Earnings of Tirhoot Section, Week ended 14-12-90.</i>												
Coaching	..	10,000		10,000			10,500		11,143			
Goods	..	10,000		10,000			10,500		11,143			
Other earnings	..	1,000		1,000			1,000		1,000			
Total	..	21,000		21,000			21,500		22,146			

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 22nd November 1890	10,333
Corresponding period of 1889	10,693

Decrease	360
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Receipts per mile for week ending 22nd November 1890	Rs. A. P.
Corresponding period of 1889	202 9 9

Decrease	7 1 1
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Receipts from 1st July to 22nd November 1890	2,36,518
Corresponding period of 1889	2,30,409

Decrease	6,109
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DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 29th November 1890	11,670
Corresponding period of 1889	11,073

Increase	597
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Receipts per mile for week ending 29th November 1890	Rs. A. P.
Corresponding period of 1889	228 13 2

Increase	11 11 2
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Receipts from 1st July to 29th November 1890	2,42,079
Corresponding period of 1889	2,47,591

Decrease	5,512
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